
SEMIANNUAL GROUNDWATER QUALITY REPORT AND VOLUNTARY SWMU SAMPLING

FALL 2004

Tooele Army Depot

Tooele, Utah



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**VOLUME 1:
SEMI-ANNUAL GROUNDWATER QUALITY REPORT
AND VOLUNTARY SWMU SAMPLING
FALL 2004
TOOELE ARMY DEPOT, UTAH**



Tooele Army Depot

April 14, 2005

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LIST OF ACRONYMS

1,1,1-TCA	1,1,1-trichloroethane
1,2-DCE	1,2-dichloroethene
µg/L.....	micrograms per liter
bgs.....	below ground surface
CAOs.....	corrective action objectives
CD	compact disk
CDQMP	Chemical Data Quality Management Plan
CMS	Corrective Measures Study
COCs.....	contaminants of concern
COPCs.....	contaminants of potential concern
CTC.....	carbon tetrachloride
DCA	cis-1,2-dichloroethane
DCE.....	cis-1,2-dichloroethene
DO.....	dissolved oxygen
EMAX.....	EMAX Laboratories, Inc.
ft/ft.....	feet per foot
GC/MS	Gas Chromatography-Mass Spectrometry
gpm	gallons per minute
Hg.....	mercury
IWL.....	Industrial Waste Lagoon
L	liter
LCS	laboratory control sample
MCL.....	Maximum Contaminant Level
MDL.....	method detection limit
mg/L.....	milligrams per liter
mL.....	milliliter
MS.....	matrix spike
MS/MSD	matrix spike/matrix spike duplicate

LIST OF ACRONYMS (continued)

MSL	mean sea level
MWH	MWH Americas, Inc.
mV	millivolts
NTUs.....	nephelometric turbidity units
ORP.....	oxidation-reduction potential
PCE	tetrachloroethene
PPMV.....	parts per million by volume
PQL.....	practical quantitation limit
PSG	Professional Services Group, Inc.
PVC.....	polyvinyl chloride
QA.....	quality assurance
QC	quality control
QA/QC	quality assurance/quality control
QCSR	Quality Control Summary Report
RCRA.....	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
RPDs	relative percent differences
SVE	soil vapor extraction
SVOCs	semi-volatile organic compounds
SWMUs.....	Solid Waste Management Units
TCE	trichloroethene
TDS	total dissolved solids
TEAD	Tooele Army Depot
UDEQ	Utah Department of Environmental Quality
USACE	U.S. Army Corps of Engineers
VOA.....	volatile organic analysis
VOCs.....	volatile organic compounds
VSG.....	vertical soil gas

1.0 INTRODUCTION

As part of their ongoing operation and maintenance contract, MWH Americas, Inc. (MWH) has been contracted by the U.S. Army Corps of Engineers (USACE), Sacramento District, to conduct periodic groundwater sampling and analysis at the Tooele Army Depot (TEAD). All work described herein represents the twenty-first semi-annual groundwater sampling event since startup of the TEAD groundwater treatment facility. The work was conducted in accordance with the Chemical Data Quality Management Plan (CDQMP) (USACE, rev.3, June 2004).

This annual report summarizes the groundwater monitoring activities at six solid waste management units (SWMUs) at TEAD during the Fall 2004 semi-annual monitoring event. The SWMUs monitored under the TEAD groundwater program include SWMUs 2 and 58, SWMUs 10 and 11, and SWMUs 12 and 15. Due to their proximity, SWMUs 2 and 58, SWMUs 10 and 11, and SWMUs 12 and 15 are paired and addressed in single discussions that are referred throughout this report as SWMU 2/58, SWMU 10/11, and SWMU 12/15, respectively.

During the Fall 2004 event, both water elevation and chemical data were collected for SWMUs 2/58 and SWMUs 12/15. Only water elevation data was collected for SWMUs 10/11 as those SWMUs are now in a biennial sampling program, with the next event scheduled for Spring 2006. Also during this event, the non-operation test for the SWMU 2 groundwater treatment system was begun. Transient water level monitoring was performed over a 90-day period. The field activities of that program are described in Volume 2. The following information is included for each of the SWMUs in this program:

- Project background and scope of the sampling event;
- Groundwater elevation data and groundwater elevation contour maps;
- Groundwater monitoring sampling results and isoconcentration maps;
- Evaluation and interpretation of groundwater monitoring data; and
- Recommendations for future action.

1.1 PROJECT BACKGROUND

TEAD is located in Tooele, Utah, approximately 35 miles southwest of Salt Lake City. The general location of TEAD is shown in Figure 1-1. Environmental restoration activities at TEAD vary depending on the characteristics of each SWMU. Locations of the six SWMUs discussed in this report are shown on Figure 1-2 that depicts the central and eastern portions of TEAD.

SWMU 2/58 is comprised of a former industrial wastewater system, with its associated groundwater contaminant plume (SWMU 2), and the more recently identified northeast boundary plume and associated source areas in the former vehicle maintenance area (SWMU 58). SWMU 10/11 is associated with a former 2,4,6-trinitrotoluene (TNT) washout facility and laundry effluent pond, respectively. SWMU 12/15 consists of a former pesticide disposal area and sanitary landfill, respectively. Additional background information for all of the SWMUs described in this report is included in Sections 3.1, 4.1, and 5.1. TEAD is required to monitor and/or remediate the groundwater at SWMU 2/58 in accordance with the Resource Conservation and Recovery Act (RCRA). Additionally, TEAD is voluntarily monitoring the groundwater at SWMUs 10/11 and 12/15.

1.2 ORGANIZATION OF REPORT

This report (Volume I) includes groundwater sampling and water level measurement methods, results, and discussions for the SWMUs. Field activities for all of the SWMUs are discussed in Section 2. The groundwater elevation information and analytical results for each of the SWMUs are presented and discussed in the following sections of this report:

- SWMU 2/58 – Section 3
- SWMU 10/11 – Section 4
- SWMU 12/15 – Section 5

Section 6 lists the references used for this report. Table 1-1 lists the wells that were sampled, Table 1-2 shows groundwater elevation data at each SWMU and detected analytes for each

SWMU are presented in Table 1-3. The figures corresponding to each SWMU follow the “Figures” tab at the end of the text.

A comprehensive list of wells and analytes monitored for the Fall 2004 sampling is included in Appendix A of this report. A comprehensive Data Quality Control Summary Report (QCSR) for the laboratory data is provided in Appendix B. A cross-reference table of field and laboratory identification numbers is included in Table B-4 of Appendix B. An electronic copy of the laboratory reports with chain of custody documentation is provided in Appendix C on a compact disk (CD). Field data sheets are included in Appendix D. Groundwater concentration versus time and hydrographs for selected wells and analytes monitored are also provided as Appendix E. Discussions of plant operations and the transient water level rebound test are included in Volume 2 of this report. Hydrographs presenting data from the rebound test are provided in Appendix F.

1.3 SCOPE OF SAMPLING EVENT

This sampling effort included the following tasks:

- **SWMU 2/58** – MWH measured water levels in 203 monitoring wells and piezometers. Groundwater samples were collected and analyzed from 75 monitoring wells. Transient water level monitoring was performed in 74 wells.
- **SWMU 10/11** – Groundwater level measurements in 14 wells, with no well sampling conducted.
- **SWMU 12/15** – Groundwater level measurements in 16 wells and sample collection and analysis from 6 monitoring wells.

Groundwater samples were submitted to the EMAX Laboratories, Inc. (EMAX) located in Torrance, California for chemical analysis. EMAX is certified by the State of Utah and validated by the USACE for the analytical methods used to support this monitoring event. Data collected during this event are presented in both tabular and graphical form.

2.0 SAMPLING FIELD AND LABORATORY PROGRAMS

2.1 FIELD ACTIVITIES

MWH conducted the field activities associated with the Fall 2004 semi-annual groundwater monitoring event. Activities began with water level soundings in all of the wells/piezometers. Measurements were collected in September for all wells and again in November for the specific wells sampled for the Fall 2004 event. Selected monitoring wells were sampled by the diffusion sampling method and the KABIS® sampling method, depending upon the contaminant of concern. The sampling method is identified in Table 1-1. A comprehensive summary of the wells sampled and the laboratory analytical results for this sampling event is included in Appendix A.

MWH maintained records of daily events and pertinent sampling data in a bound field logbook and on sampling field sheets. Logbook entries included personnel present on site, weather conditions, activities conducted, sample identification and sampling times, and other significant field information. Sampling data sheets were used to compile pertinent sampling data such as well depths, sample depths, water levels, minimum purge volumes, methods of purging and sampling, purging rates, parameters measured during purging, and instrument calibration records. Copies of depth-to-groundwater measurements and monitoring well sampling records are presented in Appendix D. Chain-of-custody forms are included with the analytical data located on CD in Appendix C.

2.2 GROUNDWATER MONITORING

The groundwater sampling program conducted at TEAD SWMUs has been tailored to the specific contaminants and conditions at these SWMUs. The following paragraphs briefly summarize the nature of groundwater impacts at each location:

- **SWMU 2/58** – Groundwater sampling occurs semi-annually under the requirements and conditions documented in the TEAD Post Closure Permit, February 12, 2001. Volatile organic compounds (VOCs) are monitored as required in Module V of the Permit, including the industrial solvents trichloroethene (TCE), carbon tetrachloride (CTC), 1,1,1-trichloroethane (1,1,1-TCA), and their breakdown products.
- **SWMU 10/11** – Groundwater at SWMUs 10/11 is monitored voluntarily by TEAD. The CMS Work Plan (Dames & Moore, 2000) identified the contaminants of concern (COCs) in the surface and subsurface soils at SWMU 10 as explosive constituents RDX and TNT. No chemical monitoring occurred at SWMU 10/11 for the Fall 2004 event.
- **SWMU 12/15** – Groundwater at SWMUs 12/15 is also monitored voluntarily by TEAD semi-annually. VOC consistent with those monitored at SWMUs 2/58 are monitored as constituents of potential concern (COPCs) in the groundwater at SWMU 12/15.

The locations of TEAD groundwater monitoring wells are included in Figure 1-2. Table 1-1 contains the list of wells that were sampled and sampling methods used during the Fall 2004 groundwater sampling event.

2.2.1 Groundwater Level Measurements

MWH measured water levels in 203 monitoring wells and piezometers located at SWMU 2/58, 14 monitoring wells at SWMU 10/11, and 16 monitoring wells at SWMU 12/15. Groundwater level measurements were taken in September 23-24, 2004 for all wells and a second measurement was taken on November 1-4, 2004 for those wells that had passive diffusion bag (PDB) samplers installed. The groundwater levels were measured to the nearest 0.01 foot. Complete groundwater elevation data is included in Table 1-2 including dates and times of measurements.

In accordance with project safety requirements, MWH used a flame ionization detector and combustible gas/oxygen meter to screen the air at the top of the monitoring well casings and in

the workers' breathing zone for total volatile compounds and explosive gases. In addition, the air was screened immediately upon opening the inner casing lid. None of the wells exhibited detectable total VOCs. No explosive gases were detected at concentrations greater than 10% of the lower explosive limit.

2.2.2 Diffusion Sampling

Consistent with past sampling events, passive diffusion samplers were utilized for sampling efforts during the Fall 2004 event given that VOCs are the contaminant of concern. Diffusion samplers are a more efficient method due to time and labor savings for the sampling effort, elimination of purge water, and a reduction in the disturbance on the formation groundwater.

VOCs are the COC in the majority of the SWMU 2/58 on-site wells, in the nine off-site 'D' wells (D-01 through D-10, excluding D-08), and in SWMU 12/15 wells. Notes were made on the field forms (see Appendix D) documenting the surface condition of the PDBs as they were collected. All bags were free of surface coating with the exception of the PDBs retrieved from wells N-135-90 and B-31 where the surface of the bag had a rusty color. In addition the PDB from well C-39 is noted to contain air bubbles and a headspace had developed within the bag.

Diffusion Sampling Technique

Diffusion sampling is performed without purging and involves lowering a polypropylene bag filled with distilled water to a predetermined depth. The depths for each well were determined in an optimization event completed concurrent with the Fall 2002 sampling event. In subsequent events the passive diffusion bag (PDB) sampler is placed at the same depth location to maximize optimum concentration information and provide the best possible consistency of data for trend evaluation of detected volatile organic analytes with prior sampling rounds. Once in place, the water within the diffusion sampler is allowed to equilibrate with the surrounding groundwater for a minimum of two weeks. During this time, VOCs diffuse into the distilled water until concentrations of analytes within the PDB sampler are in equilibration with the concentrations of

analytes in the ground water in the well. The diffusion sampler is then removed from the well and water is transferred into pre-preserved 40 mL volatile organic analysis (VOA) vials.

2.2.3 KABIS[®] Groundwater Sampling

A KABIS[®] sampler was used to collect groundwater samples from wells A-02A, B-07, B-26, B-34, C-09, C-17, C-19, C-21, C-35, and C-37 at SWMU 2/58 on November 16-17, 2004. These selected SWMU 2/58 wells were monitored for 1,4-dioxane by the SW8270C SIM method. The chemical 1,4 dioxane is known be used as a solvent stabilizer in chlorinated solvents, particularly the solvent 1,1,1-trichloroethane (TCA), which is present, amongst other solvents, in the industrial area at TEAD. As a stabilizer 1,4-dioxane was added to slow the process of solvent reaction with acids, water, metals and their salts, thus extending its useful life. Low-level concentrations of 1,4 dioxane have been detected in SWMU 2/58 wells during prior sampling events.

KABIS[®] Sampling Techniques

A KABIS[®] sampler consists of a projectile-shaped device with an enclosed disposable sample container that is lowered to the screened interval of the well. At the pre-determined depth, the sampler is opened and allows the sample bottle to slowly fill with relatively undisturbed water. The samples are collected prior to purging the wells, thus reducing the potential for turbidity disturbances induced during purging and reducing the potential for volatilization of organic compounds. After the sample was collected the water sample was transferred into laboratory provided clean glass containers. The disposable plastic one-liter container was discarded and the KABIS[®] sampler was decontaminated prior to moving to the next sample collection point.

2.2.4 Sample Handling

Each sample container was pre-labeled with a self-adhesive label filled out with indelible ink. Information on the label included project name and location, sample identification number, analytical method requested, date and time of sample collection, and initials of sampler.

Each sample container was then placed in a sealable airtight plastic bag and stored in an ice-cooled chest. At the end of each day, samples were transferred into a dedicated secure sample storage refrigerator equipped with a thermometer and a logbook for recording the temperature in the refrigerator daily. The samples were maintained at $4^{\circ} \pm 2^{\circ}\text{C}$ during handling, storage, and transport to the lab in ice chests. Samples were transported to EMAX Laboratory by overnight courier under chain-of-custody procedures. The ice chests were sealed with shipping tape and custody seals. Copies of the chain-of-custody and cooler receipt records for this event are included with the analytical data reports in Appendix C.

2.2.5 Equipment Cleaning and Decontamination

To reduce the potential for cross-contamination between wells or piezometers, a strict regimen of equipment cleaning was followed. During the water level soundings electronic sounders were decontaminated before use at each well. Prior to the sampling activities using the KABIS[®] sampler, the non-disposable equipment that was introduced into the monitoring wells was cleaned and decontaminated using a steam cleaner and a deionized water rinse. An equipment blank sample (TEAD-11-04-C21-KA-EB) was collected and analyzed for 1,4-dioxane to assure that the decontamination procedure was effective.

2.3 GROUNDWATER ANALYTICAL PROGRAM SUMMARY

Groundwater samples were collected for analysis of the contaminant of concern listed in the TEAD Post Closure Permit (TEAD, 2001). Samples were collected and analyzed following the requirements of the TEAD CDQMP (USACE, 2004). SWMU 2/58 samples SWMU 12/15 samples were analyzed for VOCs by SW8260B and 1,4-dioxane by SW 8270C SIM. Table 1-3

Surrogate Recoveries

A surrogate is a compound spiked into the sample that is uncommon in the environment but that behaves similarly to the target analytes chromatographically. Surrogate recoveries are used to monitor method performance for the target analytes (COCs or COPCs). Surrogates were included with all samples analyzed for VOCs and 1,4 dioxane analysis. For the Fall sampling data, no volatile analytes were qualified due to surrogate recoveries outside of TEAD CDQMP limits. The following 1,4 dioxane data were qualified due to surrogate recoveries outside of limits.

- Two 1,4-dioxane sample results were qualified with a UJ and six 1,4 dioxane samples were qualified with a J- flag to indicate surrogate recovery below the acceptance criteria. The UJ flag is used for non-detected results and denotes that based on the low surrogate recovery the sample reporting limit is to be considered as estimated. The J- flag is used for detected sample results and the flag indicates that the data results are estimated concentrations and potentially biased low. Although the data are qualified as estimated, the values are consistent with prior sampling rounds. A summary of qualified data with reasons for qualification is included in Table B-2 of Appendix B.

Matrix Spike / Matrix Spike Duplicate

A matrix spike (MS) is a primary sample spiked with target compounds. All MS/MSD recoveries and RPDs were within TEAD CDQMP control limits, except for the following:

- One sample result for TCE (sample TEAD-11-04-T06-DF-261) was qualified with a J- flag indicating that the concentration is considered as an estimated value with potential a low bias due to MS recovery below the TEAD CDQMP acceptance criteria. No sample data were qualified due to MSD results. Although this single sample result is qualified, the data is consistent with historical data for this well. A summary of qualified data with reasons for qualification is included in Table B-2 of Appendix B.

Laboratory Control Samples

An LCS is a laboratory-prepared blank matrix sample spiked with target compounds. An LCS was included with all analytical batches, and all LCS recoveries were within TEAD CDQMP control limits, except for the following:

- The LCS recovery for analyte 1,1-dichloroethene, in the sample batch containing the primary sample TEAD-11-04-N15097-DF-281 and the trip blank sample 231104TB01, was below the TEAD CDQMP acceptance criteria. The 1,1-dichloroethene analyte in the primary sample result is qualified as J-. The J- flag indicates that the concentration is considered as an estimated value with potential a low bias. The non-detected 1,1-dichloroethene analyte result in the trip blank sample is qualified as UJ, which denotes that the reporting limit is to be considered as estimated based on the low LCS recovery.

Method (Laboratory) Blanks

A method blank is a laboratory-prepared blank matrix sample included in all preparation batches. No analytes were detected in the method blanks above one-half the practical quantitation limit (PQL). No samples are reported with qualifications for method blank contamination.

Instrument Calibration

Instrument checks are performed to evaluate if the instrument is capable of producing acceptable, identifiable, and quantifiable data. Instrument performance was reviewed based on initial and continuing calibration data and tuning information provided. There were no problems with the instrument tuning or initial calibrations for any of the reported data for this event. Continuing calibrations resulted in the qualification of sample data for the following analytes:

- Nine carbon tetrachloride sample results were qualified with a UJ and five with a J- due to continuing calibration standard results for carbon tetrachloride below acceptance criteria.

contains a comprehensive list of all detected analytes and their respective concentrations for both analytical methods. Appendix B contains a complete Quality Control Summary Report (QCSR) for these data. A summary of the chemical data verification follows in Section 2.4 below. Analytical results from this sampling program at each SWMU are described in detail Sections 3, 4, and 5 of this report.

2.4 ANALYTICAL DATA QUALITY

Quality assurance/quality control (QA/QC) procedures implemented for this sampling event included collection and analysis of a single KABIS® equipment blank, seven trip blank samples, and twelve QC field duplicate samples. Analytical laboratory quality control is also required to meet specific QA/QC requirements for sample receipt and hold time; matrix spike/matrix spike duplicate (MS/MSD) recovery; laboratory control samples (LCS); method blanks; and relative percent differences (RPDs), surrogate recoveries, instrument calibration, and internal standards. All control requirements and limits are documented in the TEAD CDQMP (USACE, 2004).

2.4.1 Laboratory Quality Assurance/Quality Control

Sample Receipt and Handling

The items of proper chain-of-custody documentation and technical hold-times were reviewed as a major component for completeness. All samples received by EMAX had proper chain-of-custody documentation. The primary laboratory recorded temperatures of the sample coolers at the time of laboratory receipt, and all temperatures were within the $4^{\circ} \pm 2^{\circ}$ C criteria as required. All extraction and analytical holding times were met for the analyses performed. Thus, no samples are reported with qualifications for holding time issues.

- One non-detected 1,1,1-trichloroethane result is qualified as UJ due to associated continuing calibration standard results for 1,1,1-trichloroethane below acceptance criteria.
- One non-detected 1,2-dichloroethane sample result is qualified as UJ due to associated continuing calibration standard results for 1,2-dichloroethane below acceptance criteria.

Internal Standards

Internal standards are added to the calibration standards and primary samples to ensure the instrument sensitivity and responses are stable during the analysis. Internal standard responses were reviewed against Method SW846 required criteria. There were no problems with the internal standards that resulted in the qualification of sample data.

2.4.2 Field Quality Assurance/Quality Control

Equipment Blank (KABIS® Sampler)

To reduce the potential for cross-contamination between wells or piezometers, a strict regimen of equipment cleaning was followed. During the water level soundings electronic sounders were decontaminated before use at each well. Prior to the sampling activities using the KABIS® sampler, the non-disposable equipment that was introduced into the monitoring wells was cleaned and decontaminated using a steam cleaner and a deionized water rinse. An equipment blank sample (TEAD-11-04-C21-KA-EB) was collected and analyzed for 1,4-dioxane to assure that the decontamination procedure was effective.

Trip Blanks

Trip blanks were included with each sample shipment for VOC analysis sent to the primary analytical laboratory for VOC analysis. The blanks were prepared by the laboratory and kept with the field sampling containers throughout the field effort until they were returned with samples sent to the laboratory. Laboratories prepare their blank water through a combination of

ultrafiltration, deionization, and nitrogen purging that produces reagent grade water. No analytes were detected in the trip blank samples and the associated sample results are reported without qualifications.

Field Duplicate Samples

Field duplicate samples were collected during the sampling event to evaluate the precision of the analytical data. The field duplicates were collected, packaged, and transported in the same manner as the primary sample, but assigned a different identification number and sampling time. Twelve blind field duplicate samples were collected from the monitoring wells, representing at least 10% of the samples collected from these wells, and analyzed for VOCs and 1,4-dioxane. The samples were collected from wells B-03, B-62, C-09, C-12, C-26, D-07, E-03-2, E-04, E-14, E-15, N-04, and N-132-90. A review of the sample results and the RPD calculations between duplicate sample pairs indicate good sampling and analytical precision. Duplicate sample results are located in Appendix B in Tables B9a and B9b of the QCSR.

2.4.3 Data Quality Review

MWH's project chemist reviewed and evaluated 100% of data generated for this project through a systematic procedure in which method performance is compared to defined criteria. The analytical and contract compliance criteria are located in the approved TEAD CDQMP (USACE, 2004). The level of detail to which data was reviewed is consistent with the "*National Functional Guidelines for Organic Data Review*" (EPA, 2001) to the extent possible. Based on the review of the EMAX laboratory data, MWH concluded that the analytical data are deemed acceptable and usable for the intended purposes.

3.0 SWMU 2/58 MONITORING RESULTS

3.1 BACKGROUND

SWMU 2/58 at TEAD contains VOC sources that have impacted the underlying groundwater. Sources include a former industrial wastewater system, with its associated groundwater contaminant plume (SWMU 2), and a more recently identified oil/water separator at Building 679 that is considered to be a primary source of the northeast boundary plume (SWMU 58). The Industrial Waste Lagoon (IWL) and ditches, which received process water contaminated with industrial hazardous wastes, were closed in 1988 and 1989. Similarly, the oil/water separator at Building 679 was removed in 2000. Other industrial processes in the former vehicle maintenance area of TEAD are also believed to have impacted groundwater in SWMU 2/58.

In 1991, the State of Utah issued a hazardous waste post-closure permit for monitoring and corrective action of the IWL and associated wastewater ditches. The permit requires TEAD to clean up the groundwater and conduct groundwater monitoring and treatment system sampling during groundwater treatment system operation. In response to the State of Utah requirements, TEAD has installed a large groundwater treatment system that includes 16 extraction wells, 13 injection wells, and an air-stripping facility that can process groundwater up to 8,000 gallons per minute. Figure 3-1 presents the monitoring well and piezometer locations associated with the groundwater restoration program at SWMUs 2/58 and 12/15 (described in Section 5).

The monitoring objective for SWMU2/58 was to provide data to monitor the progress of groundwater remediation. However starting with the Fall 2004 event, the *Final System Non-Operation Test Proposal (NOT), Implementation of Alternative Measures, Industrial Waste Lagoon* (URS 2003a) has modified that objective. The NOT Proposal describes specific steps for conducting a reduced operation of the pump and treatment system at SWMU 2 and evaluating the effects of that reduced capacity and limited period of operation. Although the plume appears to be contained, the pump-and-treat system may never meet the permit requirements to reduce groundwater contamination to specified levels by removing hazardous

constituents from groundwater. Due to the nature of previous investigations and the decision to construct the system, the stability of the plume was not evaluated prior to active remediation, nor were alternatives other than pump and treat considered (URS, 2003a). A thorough evaluation of the effectiveness of the existing groundwater treatment system is necessary to support selection of an alternative remedy.

The purpose of the NOT is to obtain the data needed to assess how the existing groundwater treatment system exerts control on the groundwater plume. The treatment system was designed to limit the extent of the plume and reduces measured levels of contamination. During the period of time that groundwater pumping is reduced to a minimum level, data will be collected and evaluated in support of an alternate program of plume management. That alternative may include development of a monitored natural attenuation remedy for groundwater that will allow shut down of all or part of the existing groundwater treatment system. The evaluation period will extend for three years (URS, 2003a).

Contaminants discharged to the IWL have infiltrated to groundwater and contributed to a northward trending dilute plume (Figure 3-4). The predominant groundwater contaminant is the volatile organic compound (VOC) TCE, although other VOCs also have been detected. These include carbon tetrachloride, chloroform, benzene, ethylbenzene, toluene, 1,1-dichloroethane, and 1,1-dichloroethene, 1,2-dichloroethane, and 1,1,1-trichloroethane (Figures 3-4 and 3-5).

With reduced treatment plant operations, the monitoring plan for the SWMU 2/58 area now addresses two broad objectives. The first objective is to periodically assess the extent of solvent (VOC) contamination in the groundwater. The second objective is to assess the effect of the groundwater treatment system on groundwater flow and concentrations of contamination in the groundwater.

Both groundwater elevations and contaminant concentrations are being monitored to meet these objectives. Chemical monitoring provides data needed to assess how contaminant concentrations respond to reduced pumping during the plant shutdown. The current network of wells monitored during the semiannual events provides a regularly updated evaluation of both the magnitude and

extent of groundwater contamination at TEAD, and with minor adjustments to the numbers of wells being monitored is well suited to monitoring the effects of reduced groundwater pumping operations. Monitoring data was collected in accordance with the requirements of the TEAD CDQMP (USACE, 2004) to ensure data quality and comparability to past monitoring data.

In addition to the basic network of wells normally monitored for the semiannual monitoring program, certain additional key wells exterior to the plumes were also monitored to identify the limits of the plume, especially as it is expected to change during the non-operational test period. Wells B-50 and B-32 yield a somewhat improved delineation of the main plume in the vicinity of the northern TEAD boundary, where concern is high for changes during the test period (URS 2003). To delimit the plume boundary, TEAD added wells C-18, C-32, N-114-88, B-14A, B-36, B-50, and B-32, to the semiannual monitoring event. Wells C-18, C-32, and N-114-88 constrain the plume model on the east and south, and B-14A and B-36 provide constraints on the west. A significant increase of TCE concentration in any of the wells will indicate an important change in plume geometry so they are being monitored in the semiannual events to verify that they continue to show no or little contamination. Analytical results for the wells sampled are discussed in section 3.4 of this report.

3.2 GROUNDWATER ELEVATIONS

Groundwater elevations at SWMU 2/58 measured during the Fall 2004 are presented in Table 1-2. Figure 3-2 is a groundwater elevation contour map based on the measured data for the shallow groundwater wells and piezometers at SWMUs 2/58 and 12/15. SWMU 12/15 groundwater elevation data are included in the contouring due to its proximity to SWMU 2/58. Hydrographs of groundwater elevations for selected monitoring wells are included in Appendix E of this report.

Shallow monitoring wells are defined as wells where the groundwater levels are equal to or less than 150 feet above the screened interval's midpoint elevation. Deep wells are defined as having groundwater elevations greater than 150 feet above the screen's midpoint elevation. The '150 foot' rule is applied for piezometers where no shallow or deep designation was included in the

location ID. The exceptions to ‘150 foot’ rule consist of wells C-37 and C-39. Although the water levels are less than 150 feet, C-39 was constructed to monitor groundwater at the surface of the bedrock that underlies the area and is thus considered a deep well. Well C-37 was constructed to monitor the deep groundwater and is paired with shallow monitoring well C-35.

3.3 GROUNDWATER FLOW DIRECTION AND GRADIENTS

3.3.1 Groundwater Flow Direction

The subsurface geology at TEAD results in complex groundwater flow directions and gradients. Most of the complexity is due to the presence of low hydraulic conductivity zones that follow suspected / inferred fault zones. Fault zones can act either as barriers to ground water flow or as conduits, depending upon the nature of the material in the fault zones (Fetter, 1994). While the full nature and structure of these fault zones at TEAD are not very well understood, their affects upon the groundwater water table and flow are very apparent. Where groundwater encounters these zones, the gradient changes from a gentle to a very steep and back to a gentle gradient over a very short distance (usually less than 1000 feet). This is evidence that these zones are acting as a barrier to groundwater flow.

Further evidence of faulting is the presence of a bedrock ‘block’ that appears to be bounded by these fault zones. This bedrock ‘block’ is depicted on Figure 3-3 as interpreted from borehole data (Kleinfelder, 2002). The shaded area is the approximate interface between the top of the water table and the upper portions of the bedrock block.

As marked by significant groundwater gradient changes, the main fault zone enters the TEAD area between wells B-23 and P-42, (left-central part of Figures 3-2 and 3-3). It trends to the northeast until it reaches the bedrock block where it splits into two general forks. The more significant fork goes around the southeastern side of the block, roughly corresponding to the edge of the top of the bedrock block’s interface with the groundwater (Figure 3-3). The other

fork of the fault appears to be deflected more to the north, again roughly following the interface of the top of the bedrock block and the watertable (Figure 3-3).

A secondary inferred fault zone appears to be present along the northern boundary of the TEAD facility, trending roughly northwest from the vicinity of monitoring well C-18 to C-10. In the vicinity of C-10 it intersects the southeastern fork of the main fault zone and further evidence that it extends to the northwest is not apparent based upon groundwater data.

Groundwater beneath SWMU 2/58 flows generally towards the north-northwest, which is consistent with the regional groundwater flow direction (Kleinfelder, 2002). In the vicinity of the upper portion of the bedrock block, groundwater appears to be flowing into the block before resuming the north-northwest regional trend. This flow into the block indicates that the bedrock has an overall higher conductivity than the bounding fault zones.

North of Building 679 in the former industrial area, ground water flow is generally towards the northeast. This flow direction is approximately 90-degrees from the regional gradient and is largely due to the northwest trending fault zone described in the preceding section.

There is a groundwater mound in the vicinity of monitoring well C-36. This is a historic feature that has been depicted in previous reports. The reason for the presence of this mound is uncertain, but it is suspected that it is associated with a leaking irrigation or water line.

3.3.2 Groundwater Gradients

The groundwater gradient in the vicinity of SWMU 12/15 is relatively gentle at 3.715×10^{-3} feet per foot (ft/ft) towards the northwest (Figures 3-2 and 3-3). Across the inferred fault zone, between B-36 and B-06, the gradient steepens significantly to approximately 0.0596 ft/ft towards the north-northwest. Northwest of the fault zone, the groundwater gradient again flattens out to approximately 1.018×10^{-3} ft/ft (estimated between P-26S and C-01) towards the northwest (Figures 3-2 and 3-3).

Groundwater gradients crossing the fault zone on the southern and southeastern sides bedrock block range between 9.2×10^{-2} ft/ft to the north and 4.9×10^{-2} ft/ft to the west. The gradient across the bedrock block itself varied between approximately 5×10^{-5} ft/ft across the central portion of the block to 2.5×10^{-2} ft/ft across the north-northeastern portion, both to the northwest. Along the northwestern margin of the basement block, across the western branch of the inferred fault zone, the groundwater gradient ranges from approximately 0.071 ft/ft in the vicinity of B-07 to approximately 2.8×10^{-2} ft/ft in the vicinity of D-03, both towards the west-northwest.

Across the inferred fault zone in the vicinity of C-13 and D-02, the gradient is approximately 4.9×10^{-2} ft/ft towards the east-northeast.

Across the inferred fault zone in the vicinity of C-13 and D-02, the gradient is approximately 0.049 ft/ft towards the east-northeast.

3.4 WATER LEVEL REBOUND

3.4.1 Field Activity

Treatment system shut-down and water level rebound measurement took place in two phases. Phase 1 included shut-down of the five extraction wells completed in bedrock, and was conducted between 22 June 2004 and 6 August 2004. Phase 2 included shut-down of the remaining extraction wells, and was conducted between 10 August 2004 and 24 September 2004. Static water levels were measured and recorded in the extraction wells and several monitoring wells using transducers/data-loggers. Additional detail of the field effort can be found in volume 2 and in the *Final System Non-Operation Test Proposal, Implementation of Alternative Measures, Industrial Waste Lagoon* (URS, 2003a).

3.4.2 Rebound Test Results

While detailed analysis of the rebound data is still pending, several general observations can be made, and are discussed here. In addition, the data is being used to further develop the groundwater flow model.

The static head changes resulting from the extraction well shutdown tended to fall into distinct categories, which generally correlate well with the various flow regimes. A small number of the wells however, did not respond in a manner that can not be readily explained until the more detailed evaluation is complete. Response curves for selected wells are presented in Appendix F. It is important to note that the vertical scale (depth to groundwater) is adjusted to specific ranges as discussed below:

Extraction Well Response: The extraction wells showed an abrupt rise in water level upon shutdown, followed by a more gradual increase. The approximate total rise in the extraction wells over the 90 day period ranged from 15 feet to 95 feet. Three wells in the bedrock had changes in the 90-95 foot range, and the rest of the wells were in the 15-35 foot range. Extraction well E-09 failed shortly before the system shut-down, resulting in a response curve typical of monitoring wells in its vicinity. Response curves for the extraction wells are plotted with the vertical scale range of 100 feet.

Bedrock Well Response: Monitoring wells in the bedrock typically showed a water level rise in the range of 7-15 feet. Response curves for wells showing a response in this range are plotted with the vertical scale range of 10 feet.

North Alluvium Well Response: Monitoring wells in the Northern Alluvium typically showed a water level rise in the range of 0.5-2 feet. Response curves for wells showing a response in this range are plotted with the vertical scale range of 5 feet.

Injection Area Response: Monitoring wells in the injection areas (P-35, B-46, B-48) saw the water level drop during the 90 day monitoring period. The magnitude of the drop ranged from approximately 1.9 to 4.4 feet. Response curves for wells showing a response in this range are plotted with the vertical scale range of 5 feet.

Background Response: Monitoring well T-07 is far upgradient of the extraction wells and was chosen to represent background water level fluctuation. During the 90 day test, its water level varied less than 1 foot, (~0.6 ft. from minimum to maximum). Wells in the Northeast Boundary Plume (C-10, C-12, C-14, C-38) showed similar response. Response curves for wells showing a response in this range are plotted with the vertical scale range of 5 feet.

Categorization Uncertain: A set of wells that appears to be west and southwest of the bedrock block (B-12, B-28, P-26s, T-04, T-06) showed little response; or in two cases, a rise in water level. The wells along the main wastewater ditch into the IWL, with the exception of deep well

B-55, (A-05, B-21, B-27, P-04d, T-02, T-03) all showed small to insignificant response to the extraction well shutdown. This is in spite of the close proximity of E-06 and E-08. On the other hand, well B-05, which is approximately 400 feet northeast of E-08, showed the most dramatic water level rise of all monitoring wells (32 feet). These phenomena require further evaluation to provide explanations for the responses.

The groundwater modeling team is using the rebound data in the modeling effort in the following manners:

- Compiled and integrated the data into a transient calibration study.
- Refine the location of the bedrock block.
- Re-evaluate the porosity values incorporated in the transport model.
- Values of K, Kv, and S were varied to provide the best match with the measured data.

A complete discussion of these model refinements will be provided in the next groundwater modeling report.

3.5 ANALYTICAL RESULTS

3.5.1 Trichloroethene

Occurrence and Distribution in Shallow Groundwater

Figure 3-4 shows a TCE isoconcentration contour map that indicates the horizontal extent of TCE impacts in groundwater as of the Fall 2004 sampling event. Table 1-1 includes TCE concentrations in the SWMU 2/58 monitoring wells. Of the SWMU 2/58 monitoring wells sampled, detectable concentrations of TCE were found in all but ten samples. Concentrations ranged from not detected at 1 microgram per liter ($\mu\text{g/L}$) to a high of 1,600 micrograms per liter in well C-33. Of the wells added to the program for monitoring TCE plume extent boundaries under the NOT, C-18, C-32, N-114-88, B-14A, B-36, B-50, and B-32, all sampled well concentrations remained at low levels. All of the wells except B-32 and B-50 had non-detected concentrations of TCE at a 1.0 $\mu\text{g/L}$ reporting limit. Well B-32 had a detected concentration of 2 $\mu\text{g/L}$ and well B-50 had a trace detection of 0.22J $\mu\text{g/L}$.

The TCE daughter products, cis-1,2-dichloroethene and trans-1,2-dichloroethene, are isomers represented by a single compound, 1,2-dichloroethene (1,2-DCE), which is posted on Figure 3-4.

The TCE degradation product 1,2-DCE was detected at low levels in just two shallow monitoring wells C-21 at 3.2 µg/L and C-35 at 2.7 µg/L for SWMU 2/58. Wells C-21 and C-35, have had several detections of total 1,2-DCE (see Appendix E), suggesting that TCE may be degrading to DCE at these two locations. These wells also had relatively high concentrations of TCE. No vinyl chloride was detected in any of the monitoring wells.

Occurrence and Distribution in Deep Groundwater

Eight wells screened in deeper groundwater at TEAD were sampled for the Fall 2004 event. One deep well near the industrial area (C-37), one deep well at the toe of the plume (C-17) and one deep well in the bedrock block (B-56) had concentrations of TCE at 19J, 3.0, and 3.1 µg/L, respectively. The other deep wells had TCE concentrations ranging from non-detect to trace values below 1 µg/L, suggesting that at this time, the majority of the contamination still resides within the shallow groundwater.

Recent Concentration Changes

TCE concentration changes through time for selected wells are presented graphically in Appendix E. The plots with available data from Fall 1988 to Fall 2004 were evaluated to assess trends in TCE concentrations.

There were several specific wells where TCE concentrations remained relatively high. TCE concentrations in monitoring well B-26 (near the source area) continued to fluctuate and showed an increased concentration of 210 µg/L reported for the Fall event, up from the 160 µg/L reported during the Spring 2004 monitoring. Results for wells C-10, C-12, C-13, C-19, C-33, and D-04 continued to show substantial concentrations of TCE but showed slightly decreased values from the Spring 2004 event. Well C-26 (located at the up gradient edge of the Northeast Boundary plume) showed the most dramatic decrease from a high of 2010 µg/L in Fall 2003 and 1180 µg/L in Spring of 2004 to a value of 490 µg/L for the Fall 2004 monitoring.

3.5.2 Carbon Tetrachloride and Degradation By-Products

An isoconcentration contour map of CTC is presented for Fall 2004 on Figure 3-5. Concentrations of the CTC degradation product chloroform are also shown. No methylene chloride was detected in groundwater samples from this event.

Chloroform (trichloromethane) was detected in several wells located in the central and southeastern portions of the main groundwater plume (Figure 3-5). The distribution of chloroform in groundwater appears to be limited to the bedrock block and areas upgradient of the bedrock block in the former industrial and maintenance areas.

3.5.3 Other Organic Compounds Detected

Detectable levels of several other VOCs were also found in several monitoring wells in SWMU 2/58. Many of these concentrations were detected below the laboratory's PQL of 1 µg/L. These values that are indicated with a "J" qualifier below and are considered trace concentrations. These detections indicated below are posted on Figure 3-6:

- 1,1-dichloroethane in wells B-05 at 0.96J µg/L, B-07 at 0.43J µg/L, B-12 at 0.12 µg/L, B-56 at 0.59 µg/L and B-62 at 0.31 µg/L;
- 1,1-dichloroethene in wells A-02A at 0.23J µg/L, B-03 at 0.39Jµg/L, B-05 at 0.85J µg/L, B-21 at 0.51J µg/L, B-21 at 0.51µg/L, B-26 at 12 µg/L, B-27 at 1.7µg/L at 0.26Jµg/L, C-19 at 0.25 µg/L, C-21 at 0.46 µg/L, C-34 at 0.38 µg/L and C-35 at 9.7µg/L;
- 1,2-dichloroethane in wells C-17 at 0.61J µg/L, C-33 at 0.21J µg/L and C-34 at 1.6 µg/L;
- 1,1,1-TCA in wells B-26 at 1.7 µg/L, B-27 at 0.2J µg/L, C-19 at 0.9J µg/L, C-34 at 0.25J µg/L and C-35 at 4.4µg/L; and
- Tetrachloroethene (PCE) in wells B-03 at 0.3J µg/L, B-05 at 0.4J µg/L, B-21 at 0.48J µg/L, B-22 at 0.34J µg/L, B-26 at 32 µg/L, B-27 at 4.7 µg/L, C-09 at 0.21J µg/L, C-19 at 0.22J µg/L, C-33 at 0.28J µg/L, C-35 at 61 µg/L, and D-04 at 0.28Jµg/L.

PCE continues to decrease in well C-35, where it has decreased further for this monitoring event to 61 µg/L from the Spring 2004 monitoring event when it was detected at 173 µg/L. Well C-35 also has continued detection of 1,1,1-TCA and 1,1-dichloroethene; those concentrations are also continuing to decrease from past sampling events. In general, the additional VOCs detected are found in groundwater beneath SWMU 2/58 source areas and in the vicinity of the former wastewater ditches and industrial wastewater lagoon.

As discussed in section 2.0 of this document, the solvent stabilizer 1,4-dioxane was added to the analytical suite for the SWMU 2/58 monitoring program. 1,4-dioxane was analyzed in 10 selected wells during the Fall 2004 monitoring event. The selected wells are located primarily in the industrial area at TEAD. Concentrations were detected in seven of the ten wells and included detections in wells B-26 at 2.2 µg/L, C-09 at 0.74J µg/L, C-17 at 1 µg/L, C-19 at 26 µg/L, C-21 at 1.9 µg/L, C-35 at 7.4 µg/L, and C-37 at 0.86J µg/L.

3.6 DISCUSSION OF RESULTS

3.6.1 Analysis Of Detection Monitoring TCE Data

The combined Shewart-CUSUM control chart method was used to analyze the detection monitoring data. This method, described in detail in the System Non-Operational Test Proposal (URS, 2003a), is widely used in landfill monitoring for timely detection of potential groundwater degradation from an upgradient contamination source, while simultaneously minimizing the probability of falsely concluding that groundwater has been degraded when it has not. There are two components to the Shewart-CUSUM approach. The Shewart methodology focuses on the current value of the monitored constituent (TCE in this case) and its relation to historic background levels of the constituent. It is sensitive to large changes, but is less sensitive to slow, trending changes in concentration. The CUSUM methodology incorporates information from previous sampling events and is sensitive to small, gradual changes relative to historical (or background.) concentrations. When a measured concentration exceeds either of the Shewart or CUSUM thresholds (URS, 2003a), it is said to be out of control.

3.6.2 Shewart and Cumulative Summation (CUSUM) Method of Analysis

Shewart and Cumulative Summation (CUSUM) control charts are intra-well comparisons used to detect immediate and gradual changes, respectively, in groundwater chemical concentrations. The charts displayed in this section compare the most recent quarterly TCE analyses to TCE analyses compiled over a prior time period of approximately four years. The control values used for comparison are derived from EPA¹ recommended values for acceptable limits as discussed in *Statistical Methods for Groundwater Monitoring* by Robert D. Gibbons (1994).

3.6.3 Methodology

Ambient concentration in a well was taken as the mean TCE concentration of eight recent samples from the wells chosen for analysis. The chosen wells are all in the boundary of the main TCE plume at TEAD, and includes wells B-16, B-34, B-35, B-37, B-40 and B-62, as indicated in the System Non-Operation Test Proposal (URS, 2003a).

Since there is only one data point from post-shutdown sampling, the CUSUM analysis, which evaluates the longer term trend, does not yet provide useful information with respect to the effect of system shutdown. A CUSUM analysis was performed to evaluate the recent trend of each well before shutdown, using the latest data value and 3-4 values before shutdown. This was done to demonstrate the methodology and its output. As more data are collected, the CUSUM methodology will become useful to evaluate for the long-term trend. The data range used to represent ambient, pre-shutdown concentrations, will be shifted to the right to include the most recent values before shutdown.

Each new TCE measurement in a well was compared to the Shewart threshold limit for the well to assess whether the leading edge of the plume has shown any immediate effect following treatment system shut-off. The procedure for performing the Shewart-CUSUM analysis as follows:

- Denote the new TCE concentration taken at time t_i by x_i .

¹ EPA (1989). *Statistical analysis of ground-water monitoring data at RCRA facilities. Interim Final Guidance*, April 1989.

- Compute the standardized value $z_i = (x_i - \bar{x})/s$, where \bar{x} is the mean and s the standard deviation.
- At each time t_i , compute the cumulative sum $S_i = \max[0, (z_i - 1) + S_{i-1}]$.
- Plot both z_i and S_i versus t_i , constructing the Shewart-CUSUM control chart.

Assumptions

To perform the Shewart-Cusum control chart analysis, the following assumptions are made:

- The data are independent (quarterly monitoring samples are assumed to be independent).
- The data are normally distributed.
- The data have a constant mean and standard deviation.
- The data contain more than 25-percent detected concentrations.

The distribution of data (normal, log-normal, non-parametric) was determined by entering the data into a ProUCL (<http://www.epa.gov/nerlesd1/tsc/form.htm>, version 3.00.02) spreadsheet and determining which data distribution best fits the well data by the Shapiro-Wilk hypotheses test. All data were normally distributed.

3.6.4 Results

The results of the Shewart-CUSUM control chart analyses are shown in figures 3-7 through 3-18, including graphs of the TCE concentrations vs. time. An “out of control” concentration is indicated if, for the first time, either z_i is greater than 4.5 or S_i is greater than 5.0; the Shewart and CUSUM thresholds, respectively. Only the Shewart control limit of 4.5 is shown on the Figures. As shown by the combined Shewart-CUSUM control charts, only well B-35 has any measurements that are out of control. All other wells indicate results below both the Shewart and CUSUM control thresholds.

3.6.5 Discussion and Conclusions

The Shewart method focuses solely on the current monitoring data and its relation to historic (ambient) levels of TCE. As indicated in the results, wells B-16, B-34, B-37, B-40 and B-62 had no results above the Shewart control threshold of 4.5 for the first sampling round (November 2004) following treatment system shut-off. Well B-35 had one data point above control limits, which occurred during treatment system operation. However, the November 2004 data point is within control limits. The Shewart method is sensitive to large, sudden changes. Data from this initial round show no large changes that would indicate an increase in intra-well TCE concentrations following treatment system shut-off. Qualitatively, this is supported by the results of all wells, which indicate no significant increase in TCE concentrations (see Appendix E for charts of groundwater concentration versus time for all wells sampled during the Fall 2004 event).

The CUSUM method incorporates information from previous measurements and is sensitive to small, gradual changes relative to ambient TCE concentrations. Since this is the first sampling round following treatment system shut-off, the data represent overall data trends over the most recent period of operation as opposed to a comparison of pre- and post- system shut-off data. Again, as indicated in the results, wells B-16, B-34, B-37, B-40 and B-62 had no results above the CUSUM control threshold of 5.0 for the first sampling round (November 2004) following treatment system shut-off. Well B-35 had four data points above control limits, which occurred during treatment system operation and for the first round following shut-off. However, the leveling slope of the CUSUM line indicates that the data are coming back into control, and that relative to the previous data, there is no apparent trend.

3.7 RECOMMENDATIONS

To better understand the impact of non-operation of the treatment system, at least three more sampling rounds will be needed to perform the CUSUM control chart analysis for the selected wells. Each sampling round can also be evaluated by the Shewart method to verify that the leading edge of the plume is not advancing downgradient.

A full evaluation of the nature and extent of residual solvents in the vadose zone, as well as their potential transport, is the subject of an on-going Phase II RCRA Facility Investigation (RFI) at SWMU 2/58. It is recommended that wells newly installed and developed during the Phase II RFI be added to the next semi-annual SWMU 2/58 groundwater monitoring. Wells D-12, D-13, D-14, D-16, C-41, C-42 and C-44 would be added to the monitoring program. Location information for four of these newly installed wells can be found on Figure 1-2. These wells were installed after the Fall 2004 monitoring well installation; water level and sampling data will be incorporated into subsequent events. Survey information for D-14 and C-44 is forthcoming and could not be plotted on the figure at this time.

4.0 SWMU 10/11 MONITORING RESULTS

4.1 BACKGROUND

4.1.1 SWMU 10

SWMU 10 is a former TNT Washout Facility where unexploded ordnance was neutralized. It consists of the former bomb reconditioning building (Building 1245), a former storage facility (Building 1246), and former TNT washout ponds. The facility was constructed in 1948 and was operated until 1986. Various munitions (i.e., projectiles, bombs, and rocket heads) filled with TNT, RDX, Composition B (a mixture of TNT and RDX), and tritonol (2-methyl-1,3,5-trinitrobenzene with aluminum) were brought to Building 1245 to be decommissioned. The casings were cut open, steamed in an autoclave, and then rinsed with water to remove any residual explosive material.

Before it was discharged to outdoor settling tanks, the rinse water obtained from the washout process was filtered to capture additional explosives. After it was filtered, the rinse water was routed outside the building in a metal trough, which emptied into a baffled-cement settling tank and/or settling ponds. The ponds, known as the Old TNT Washout Ponds (a series of four ponds connected by overflow pipes), were located directly north of the decommissioning facility. The ponds were closed and filled in Fall 1984. A PVC liner and clean soil cover were placed over the area of the ponds (Rust, 1995).

4.1.2 SWMU 11

SWMU 11, the Laundry Effluent Pond, is located north of the TNT Washout Building (Building 1245) and includes a septic tank, leach field, sewage pond, laundry effluent pond, sand pit, and waste piles. The sewage pond was originally constructed to receive laundry effluent and lies directly south of the laundry effluent pond. A septic tank and leach field are located south of the sewage pond.

The first pond north of the septic tank was constructed to receive laundry effluent discharge; however, because of gradient problems, the pond was never used. Seepage of liquids into the bottom of the pond has been observed. Immediately north of the sewage pond is the laundry effluent pond, which accepted discharge liquids from the laundry and showers located in Building 1237 until 1990. It also received boiler blowdown water from Building 1237. The effluent was originally discharged by underground pipe to ditches that flowed into small ponds. The overflow from these ponds continued north and northwest to a drainage area.

Sometime in the early 1980s, the pond receiving laundry effluent was expanded. This bermed, unlined pond measured approximately 100 feet long, 80 feet wide, and 16 feet deep, and received an estimated 7,200 gallons of effluent per day during periods of high use. For a two-year period, the laundry effluent was discharged to Pond 3 of the Old TNT Washout Facility (SWMU 10) because of piping problems. The piping was replaced in 1984, and the effluent discharge was continued until 1990.

An area containing several piles of surface debris was identified east of the Laundry Effluent Ponds and added to SWMU 11. The debris consists of metal cuttings, oil filters, brake drums, and other miscellaneous debris.

Historical analytical data collected at SWMU 10/11 indicates generally decreasing concentrations of explosives in the groundwater. Degradation of explosives at this SWMU is expected to continue, as the groundwater conditions appear to be oxygen-rich, which enables degradation of residual explosives through aerobic microbial activity. Like SWMU 3, metals at SWMU 10/11 have been detected at the highest concentrations in wells with stainless steel well screens. As SWMU 10/11 is now in a biennial monitoring program, no chemical monitoring occurred at this location for the Fall 2004 semi-annual event.

4.2 GROUNDWATER ELEVATIONS AND GRADIENT

Groundwater elevations at SWMU 10/11 for Fall 2004 ranged from 4467.25 to 4969.27 feet above MSL (N-133-90 and N-110-88 respectively) (Figure 4-1). Depth-to-water and groundwater elevation measurements are included in Table 1-2. The groundwater flow direction is generally towards the west with the gradient increasing from east to west across the site (Figure 4-1). For example, in the vicinity of former building 1246, the gradient is approximately 9.67×10^{-4} ft/ft. West of well N-148-97 the gradient increases to approximately 3.7×10^{-3} ft/ft.

5.0 SWMU 12/15 MONITORING RESULTS

5.1 BACKGROUND

SWMU 12 and 15, the Pesticide Disposal Area and the Sanitary Landfill, respectively, are treated as a single unit because they are located in the same area. The precise location of SWMU 12 is not specifically known, except that it is somewhere within the boundary of SWMU 15. SWMU 12 (the Pesticide Disposal Area) was reportedly a trench where barrels containing small amounts of pesticides were emptied prior to disposal. This activity is thought to have ceased by 1982 or 1983, and the site was not identified until 1987 (URS, 2001).

SWMU 15 (the Sanitary Landfill) is approximately 100 acres in size and was in operation from 1942 to 1995. The landfill has received both hazardous and non-hazardous waste, but no records exist to detail the specific waste types or placement within the landfill. Past waste management practices have consisted of burying the waste in trenches or in natural depressions and covering it with nearby available soils. In Spring 1994, the landfill was closed to the disposal of wastes but continued to receive construction rubble and debris until 1995 (URS, 2001).

VOCs are the primary contaminant of potential concern in the groundwater at SWMU 12/15. TCE has been detected the most frequently and with the highest concentrations. Typically the highest concentrations of contaminants are detected in the shallow portion of the aquifer nearest to the source area (URS, 2001).

5.2 PREVIOUS MONITORING RESULTS AT SWMU 12/15

Groundwater quality beneath the SWMU 12/15 landfill has been routinely monitored since 1986, when a series of monitoring wells were installed. Although several groundwater contaminants were suspected, the results of previous sampling events have repeatedly shown detections of TCE above the MCL of 5 µg/L in several wells at SWMU 12/15.

5.3 FALL 2004 MONITORING EVENT

During the Fall 2004 sampling event, water levels were measured in 16 monitoring wells prior to sampling. Eight wells (C-40, N-114-88, N-115-88, N-116-88, N-117-88, N-120-88, and N-150-97) were sampled for VOCs by EPA Method SW8260B. Well C-40 is located in the center of the landfill. Wells N-120-88 and N-150-97 are located in close proximity to the downgradient edge of the landfill. See Figure 3-1 for monitoring well locations.

5.4 GROUNDWATER ELEVATIONS

The existing monitoring wells in the vicinity of SWMU 12/15 have been completed to depths of approximately 204 to 374 feet bgs in the alluvial aquifer. Groundwater elevations during the Fall 2004 sampling event ranged from 4,466.85 to 4,474.17 feet above MSL and are presented in Table 1-2.

5.5 GROUNDWATER FLOW DIRECTION AND GRADIENT

The groundwater gradient across SWMU 12/15 is generally towards the northwest, which is consistent with the regional groundwater direction (Kleinfelder, 2002). However, groundwater mounding and depressions in the former industrial area cause the groundwater flow to be in a more northerly direction (Figure 3-2). In the vicinity of the sanitary landfill and pesticide disposal area (N-116-88 and N-150-97), the gradient is approximately 2.7×10^{-3} ft/ft (Figure 3-2). To the northwest of the landfill, in the vicinity of N-134-90, the groundwater gradient is about 1.3×10^{-3} ft/ft and south of the landfill, the gradient is about 5.8×10^{-4} ft/ft (Figure 3-2).

5.6 ANALYTICAL RESULTS

TCE was detected in the seven of the eight monitoring wells sampled this round associated with SWMU 12/15. TCE concentrations were detected in wells C-40 at 290 µg/L, N-115-88 at 0.27J µg/L, N-116-88 at 16 µg/L, N-117-88 at 1.8 µg/L, N-120-88 at 480 µg/L, N-135-90 at 5.5 µg/L and N-150-97 at 190 µg/L.

Additionally, PCE was detected in three wells, C-40 at 3.5 µg/L, N-120-88 at 11 µg/L, and N-150-97 at 3.9 µg/L. 1,2-DCE was found at low concentrations in four of the SWMU 12/15 monitoring wells sampled. Concentrations of 1,2-DCE were detected in wells C-40 at 5.6 µg/L, N-116-88 at 2.4 µg/L, N-120-88 at 2.5 µg/L, and N-150-97 at 8.6 µg/L. Low concentrations (less than 1 µg/L) of 1,1,1-TCA, 1,1-dichloroethene, 1,1-dichloroethane, and chloroform were detected in the samples from wells C-40, N-120-88, and N-150-97.

5.7 DISCUSSION OF RESULTS

While low level detections of several VOCs were observed in groundwater samples primarily from the three groundwater wells (C-40, N-120-88, and N-150-97) where TCE was found greater than 10 times its MCL of 5 µg/L in samples from wells. PCE concentration detections in well N-120-88 increased above the MCL of 5 µg/L. Graphs of the concentration trends for all SWMU 12/15 wells sampled during Fall 2004 are provided in Appendix E.

5.8 RECOMMENDATIONS

Groundwater monitoring in monitoring wells C-40, N-120-88, and N-150-97 should be continued to evaluate the concentrations of contaminants and time-related concentration trends. Well N-114-88 should continue to be monitored per the requirements of the non-operational test procedure.

6.0 REFERENCES

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TABLES

Table 1-1
List of Wells - Fall 2004
Tooele Army Depot

Well ID	Sampling Method	S 2002	F 2002	S 2003	F 2003	S 2004	Fall 2004	Gradient Placement			Shallow (<150 feet below WT)	Deep (>150 feet below WT)	Note
		TCE Concentration in ug/L						Perimeter	Up	Mid-plume			
SWMU 2/58													
A-02A	DF	6.7	8.1	12	26	12	31	X	X		X		Between SWMU 12/15 and main plume
B-03	DF	88	92	144	129	107	94	X		X	X		Between main and NEB plume, monitor CTC
B-05	DF	52	75	120 J	105	197	75			X	X		One of the higher concentration areas in BR
B-06	DF	8.8	8.3	9.6	11	11	6.2			X	X		Declining concentration near west margin
B-07	DF	22	20	31	32	24	26			X	X		Monitor TCE and CTC in downgradient edge of bedrock
B-09	DF	13	17	27	25	19	18			X	X		Between main and NEB plume in BR
B-10	DF	25	28	46	49	37	31	X		X		X	Between main and NEB plume in BR
B-12	DF	18	18	37	19	26	14				X	X	Track changes at nearby extraction wells
B-14A	DF	NA	NA	NA	NA	NA	<1	X			X		Delimit plume boundry, System Non-Operational Text Proposal
B-16	DF	NA	NA	NA	NA	NA	1.2	X			X		East side perimeter
B-17	DF	3.1	2.9	5.9	2	5	3	X			X	X	Monitor toe of plume in deeper well
B-18	DF	2.9	2.6	3.5	3.7	3.6	2.1	X			X	X	West side perimeter
B-19	DF	3	1	2.8	2.4	2.1	1.8	X			X	X	Monitor toe of plume; paired with B-17
B-21	DF	55	71	103	85	64	57		X			X	Near former IWL in alluvium; paired with C-25
B-22	DF	22	24	33	24	18	20		X			X	Monitor western margin of higher concentrations
B-24	DF	5.1	5.5	3.7	6.4	5.6	4.1	X		X		X	Between main and NEB plume in BR
B-26	DF	31	52	166	190	160	210		X			X	Fluctuating concentration near source area
B-27	DF	127	118	160	157	131	95		X			X	High TCE and PCE detected
B-30	DF	8.7	6.1	10	8.4	8.4	4.5				X	X	Monitor western margin of main plume
B-31	DF	1	0.6 J	0.8 J	0.800 J	0.6J	0.37J	X			X		Monitor downgradient area between plumes
B-32	DF	NA	NA	NA	NA	NA	2	X			X		Delimit plume boundry, System Non-Operational Text Proposal
B-34	DF	3.8	2.3	3.4	3	3	3.4	X			X	X	Monitor concentrations near toe of main plume
B-35	DF	8.2	4.9	7.7	7.2	7.0	5.6	X			X	X	Monitor concentrations near toe of main plume
B-36	DF	NA	NA	NA	NA	NA	<1	X			X		Delimit plume boundry, System Non-Operational Text Proposal
B-37	DF	4.6	4.3	5.8	5	5	3.5	X			X	X	Monitor concentrations near toe of main plume
B-40	DF	8.3	5.8	9.4	8.6	8.3	5.8	X			X	X	Monitor concentrations of TCE beyond depot boundary
B-50	DF	NA	NA	NA	NA	<1	0.22J		X		X		Delimit plume boundry, System Non-Operational Text Proposal
B-54	DF	13	14	26	20	17	16		X			X	Between main and NEB plume
B-56	DF	4.7	4.1	6.2	3.1	2.8	3.1			X		X	Near the dry A-07A compliance point; deep well in BR
B-59	DF	<1	NA	NA	NA	NA	0.63J			X		X	Down gradient deep well
B-61	DF	<1	<1	<1	<1	<1	<1	X			X		Down gradient deep well; pairs with B-62
B-62	DF	24	18	36	29	26	16				X	X	Monitor declining concentrations; pairs with B-61
C-03	DF	<1	<1	<1	<1	NA	<1		X			X	Monitor downgradient of main plume
C-04	DF	<1	<1	<1	<1	<1	<1				X	X	Monitor toe of plume; furthest downgradient well
C-08	DF	5	4.6	10	7.3	5.5	4.6	X			X	X	Between main and NEB plume
C-09	DF	46	32	56	48	36J	50			X		X	West margin of higher concentrations in main plume

Table 1-1
List of Wells - Fall 2004
Tooele Army Depot

Well ID	Sampling Method	TCE Concentration in ug/L						Gradient Placement				Shallow (<150 feet below WT)	Deep (>150 feet below WT)	Note
		S 2002	F 2002	S 2003	F 2003	S 2004	Fall 2004	Perimeter	Up	Mid-plume	Down			
C-10	DF	152	153	236	274	213J	160			X		X		Monitor off-depot migration of NEB plume
C-11	DF	23	23	36	32	23J	33	X			X	X		Monitor off-depot migration of NEB plume
C-12	DF	72	77	157	139	129J	100			X		X		Monitor midgradient NEB plume
C-13	DF	94	109	132	150	128J	120J			X		X		Monitor off-depot migration of NEB plume
C-14	DF	14	19	37	33	27J	25			X		X		Between plumes in alluvium
C-15	DF	17	15	23	22	19J	21		X			X		Monitor east margin of NEB plume
C-17	DF	2	5	10	17	12J	13	X				X		Monitor benzene and 1,2-DCA at LUST site
C-18	DF	NA	NA	NA	<1	NA	<1	X				X		Delimit plume boundry, System Non-Operational Text Proposal
C-19	DF	338	502	431	666	578J	490		X			X		Near main plume suspected source
C-20	DF	<1	<1	<1	<1	<1	<1		X			X		Carbon tetrachloride monitoring
C-25	DF	11	NA	NA	NA	NA	15			X		X		Monitor shut off of IWL extraction well E-05
C-26	DF	197	1,080	1,150	2,010	1,180J	490		X			X		Upgradient edge of NEB plume
C-30	DF	3.4	2.4	2.8	3.3	3.1J	3.4	X				X		Monitor CTC, monitored quarterly
C-32	DF	NA	NA	NA	NA	NA	<1	X				X		Delimit plume boundry, System Non-Operational Text Proposal
C-33	DF	2,270 - 1,900	2,950	1,830 - 1,630	1,960	1,940 - 1,800J	1600		X			X		NEB source area
C-34	DF	2	4.5	11	22	9.3J	18		X		X	X		TCE upgradient, DCE and BTEX downgradient of LUST
C-35	DF	109	64	55	39	63J	30		X			X		Main plume source area
C-37	DF	62	84	121	50	31J	19J		X			X		Monitor deeper groundwater beneath Avenue C
C-38	DF	3.3	1	<1	<1	NA	<1					X		Monitor deeper groundwater beneath margin of main plume
C-39	DF	<1	2.3	<1	<1	NA	<1					X		Monitor margin of main plume
D-01	DF	23	36	57	38	38J	39		X			X		Monitor NEB plume off-site
D-02	DF	7.6	8.8	15	12	13J	13		X			X		Monitor NEB plume off-site
D-03	DF	2	2.5	4.1	2	NA	5.9J		X			X		Monitor NEB plume off-site
D-04	DF	136	154	192	220	211J	170J		X			X		Monitor NEB plume off-site
D-05	DF	14	24	46	31	26	22		X			X		Monitor NEB plume off-site
D-06	DF	1	1	2.7	1	NA	1.4	X				X		Monitor NEB plume off-site
D-07	DF	4.6	5.8	8.4	6.6	8J	9.1		X			X		Monitor NEB plume off-site
D-09	DF	<1	<1	<1	<1	NA	<1		X			X		Monitor NEB plume off-site
D-10	DF	<1	<1	1	<1	NA	1		X			X		Monitor NEB plume off-site
T-06	DF	25	21	30	22	23	22J	X		X		X		Monitor western margin of main plume
SWMU 12/15														
C-40	DF	885	266	309	354	236J	290					X		Monitor groundwater beneath the landfill
N-114-88	DF	NA	NA	NA	NA	NA	<1					X		Delimit plume boundry, System Non-Operational Text Proposal
N-115-88	DF	<1	NA	NA	NA	NA	0.27J					X		Monitor groundwater beneath the landfill
N-116-88	DF	25	17	NA	NA	NA	16					X		Monitor groundwater beneath the landfill
N-117-88	DF	6.8	5.9	NA	NA	NA	1.8					X		Monitor groundwater boundary of the landfill

Table 1-1
List of Wells - Fall 2004
Tooele Army Depot

Well ID	Fall 2004 Sampling Method	S 2002	F 2002	S 2003	F 2003	S 2004	Fall 2004	Gradient Placement				Shallow (<150 feet below WT)	Deep (>150 feet below WT)	Note
		TCE Concentration in ug/L						Perimeter	Up	Mid-plume	Down			
N-120-88	DF	17	185	NA	548	436J	480					X		Monitor VOCs between Main plume and SWMU 12/15
N-135-88	DF	8	11	NA	NA	NA	5.5					X		Monitor groundwater beneath the landfill
N-150-97	DF	197	401	NA	339	280J	190					X		Monitor groundwater downgradient of SWMU 12/15

Notes:

ug/L = micrograms per liter

WT = Water Table

NEB = Northeast Boundary

BR = Bedrock

IWL = Industrial Waste Lagoon

NA = Not applicable or not analyzed

TCE = Trichloroethene

PCE = Tetrachloroethene

1,2-DCA = 1,2-Dichloroethane

CTC = Carbon Tetrachloride

DCE = Dichloroethene

< = Not detected above reporting limit

KA = KABIS® sampling method

DF = Diffusion sampling method

S = Spring

F = Fall

Table 1-2
Groundwater Elevation Data
Fall 2004
Tooele Army Depot

Well ID	Well Type	Well Dry (D) or Wet (W)	Date and Time Measured	Measuring Point Elevation (feet above MSL)	Water Elevation (Feet above MSL)	Screened Interval (Feet below MP)		Screen Midpoint (Feet below MP)	Measured Depth to Groundwater (Feet below MP)	Groundwater Elevation Relative to Screen Midpoint (feet below [neg] or above [pos] midpoint)
A-02A	S	W	09/24/2004 7:14	4757.98	4470.50	277.80	297.80	287.80	287.48	0.32
A-03	S	W	09/24/2004 10:02	4704.58	4467.97	221.70	231.70	226.70	236.61	-9.91
A-04	S	NM	09/24/2004 10:16	4719.75	NM	236.00	246.00	236.61	NM	
A-05	S	W	09/24/2004 11:58	4690.06	4466.74	213.90	223.90	218.90	223.32	-4.42
A-06	S	NM		4666.20	NM	276.60	286.60	281.60	NM	
A-07A	S	W	09/24/2004 10:56	4671.16	4358.05	302.00	322.00	312.00	313.11	-1.11
B-01	S	W	09/23/2004 16:20	4680.06	4469.31	288.00	298.00	293.00	210.75	82.25
B-02	S	D	09/23/2004 14:50	4815.14	Dry	335.00	345.00	340.00		
B-03	S	W	09/23/2004 10:29	4721.12	4467.33	260.00	270.00	265.00	253.79	11.21
B-04	S	W	09/23/2004 15:48	4645.58	4466.06	170.00	180.00	175.00	179.52	-4.52
B-05	S	W	09/23/2004 10:33	4692.08	4362.57	420.00	430.00	425.00	329.51	95.49
B-06	S	W	09/23/2004 15:00	4587.63	4308.19	285.00	295.00	290.00	279.44	10.56
B-07	S	W	09/24/2004 7:20	4607.65	4357.02	280.00	290.00	285.00	250.63	34.37
B-08	S	D	09/24/2004 7:56	4605.27	Dry	222.00	232.00	227.00		
B-09	S	W	09/24/2004 8:03	4654.76	4357.66	370.00	380.00	375.00	297.10	77.90
B-10	S	W	09/24/2004 8:35	4681.42	4459.43	284.00	294.00	289.00	221.99	67.01
B-11	S	W	09/24/2004 8:55	4589.29	4354.16	274.00	284.00	279.00	235.13	43.87
B-12	S	W	09/23/2004 7:15	4569.42	4306.64	256.00	266.00	261.00	262.78	-1.78
B-13	D	W	09/23/2004 14:40	4566.75	4306.67	444.00	454.00	449.00	260.08	188.92
B-14A	S	W	09/23/2004 13:20	4539.23	4306.27	260.00	280.00	270.00	232.96	37.04
B-15	S	W	09/23/2004 12:45	4534.81	4306.71	286.00	296.00	291.00	228.10	62.90
B-16	S	W	09/23/2004 11:25	4534.86	4303.96	285.00	295.00	290.00	230.90	59.10
B-17	D	W	09/23/2004 11:00	4494.48	4304.10	440.00	450.00	445.00	190.38	254.62
B-18	S	W	09/23/2004 12:15	4504.13	4301.33	210.00	220.00	215.00	202.80	12.20
B-19	S	W	09/23/2004 10:45	4484.74	4303.57	256.00	266.00	261.00	181.17	79.83
B-20	S	W	09/24/2004 10:30	4644.63	4357.05	396.00	406.00	401.00	287.58	113.42
B-21	S	W	09/24/2004 10:45	4682.12	4443.25	244.00	254.00	249.00	238.87	10.13
B-22	S	W	09/24/2004 10:07	4694.68	4467.81	354.00	364.00	359.00	226.87	132.13
B-23	S	W	09/23/2004 16:05	4623.32	4464.99	269.00	279.00	274.00	158.33	115.67
B-24	S	W	09/24/2004 9:30	4681.50	4357.35	378.00	388.00	383.00	324.15	58.85
B-25	D	W	09/23/2004 11:30	4478.75	4304.05	550.00	560.00	555.00	174.70	380.30
B-26	S	W	09/24/2004 11:48	4779.12	4469.29	314.00	324.00	319.00	309.83	9.17
B-27	S	W	09/24/2004 10:20	4706.08	4468.19	256.00	266.00	261.00	237.89	23.11
B-28	S	W	09/23/2004 15:15	4608.34	4316.78	381.00	391.00	386.00	291.56	94.44

NM = Not Measured

MSL = Mean Sea Level

Table 1-2
Groundwater Elevation Data
Fall 2004
Tooele Army Depot

Well ID	Well Type	Well Dry (D) or Wet (W)	Date and Time Measured	Measuring Point Elevation (feet above MSL)	Water Elevation (Feet above MSL)	Screened Interval (Feet below MP)		Screen Midpoint (Feet below MP)	Measured Depth to Groundwater (Feet below MP)	Groundwater Elevation Relative to Screen Midpoint (feet below [neg] or above [pos] midpoint)
B-29	D	W	09/23/2004 13:00	4542.16	4304.59	468.00	478.00	473.00	237.57	235.43
B-30	S	W	09/23/2004 12:55	4535.64	4304.50	225.00	235.00	230.00	231.14	-1.14
B-31	D	W	09/23/2004 11:10	4514.17	4303.21	422.00	432.00	427.00	210.96	216.04
B-32	S	W	09/23/2004 11:05	4502.46	4303.34	225.00	235.00	230.00	199.12	30.88
B-33	D	W	09/23/2004 10:40	4480.35	4303.67	377.00	387.00	382.00	176.68	205.32
B-34	S	W	09/23/2004 11:35	4477.79	4303.28	224.00	234.00	229.00	174.51	54.49
B-35	S	W	09/24/2004 11:40	4469.53	4297.75	212.00	222.00	217.00	171.78	45.22
B-36	S	W	09/23/2004 15:40	4623.85	4464.11	229.00	239.00	234.00	159.74	74.26
B-37	S	W	09/23/2004 10:15	4445.09	4296.97	192.00	202.00	197.00	148.12	48.88
B-38	D	W	09/23/2004 10:28	4445.08	4303.26	480.00	490.00	485.00	141.82	343.18
B-39	D	W	09/23/2004 10:04	4460.17	4303.50	300.00	310.00	305.00	156.67	148.33
B-40	S	W	09/23/2004 10:35	4461.72	4300.47	174.00	184.00	179.00	161.25	17.75
B-41	S	W	09/23/2004 9:50	4478.35	4303.15	176.00	186.00	181.00	175.20	5.80
B-42	S	W	09/23/2004 7:55	4423.31	4297.23	190.00	200.00	195.00	126.08	68.92
B-43	D	W	09/23/2004 7:50	4423.75	4303.85	484.00	494.00	489.00	119.90	369.10
B-44	S	W	09/23/2004 7:40	4434.92	4296.45	163.00	173.00	168.00	138.47	29.53
B-45	D	W	09/23/2004 7:36	4435.10	4303.25	488.00	498.00	493.00	131.85	361.15
B-46	S	W	09/23/2004 7:46	4417.80	4296.48	208.00	218.00	213.00	121.32	91.68
B-47	S	W	09/23/2004 9:11	4414.52	4295.38	198.00	208.00	203.00	119.14	83.86
B-48	D	W	09/23/2004 9:15	4414.24	4302.85	472.00	482.00	477.00	111.39	365.61
B-49	S	W	09/23/2004 7:42	4435.17	4302.78	260.00	270.00	265.00	132.39	132.61
B-50	S	W	09/23/2004 10:08	4463.29	4303.25	240.00	250.00	245.00	160.04	84.96
B-51	S	W	09/23/2004 10:55	4462.71	4302.51	260.00	270.00	265.00	160.20	104.80
B-52	S	W	09/23/2004 9:55	4478.95	4303.11	260.00	270.00	265.00	175.84	89.16
B-53	S	W	09/23/2004 9:32	4495.85	4303.45	254.00	264.00	259.00	192.40	66.60
B-54	S	W	09/24/2004 8:16	4788.43	4467.74	352.00	362.00	357.00	320.69	36.31
B-55	D	W	09/23/2004 11:02	4683.95	4419.22	648.00	658.00	653.00	264.73	388.27
B-56	D	W	09/24/2004 11:00	4666.30	4356.96	656.00	666.00	661.00	309.34	351.66
B-57	D	W	09/24/2004 7:25	4599.55	4356.65	505.00	515.00	510.00	242.90	267.10
B-58	D	W	09/23/2004 17:13	4586.47	4357.02	422.00	432.00	427.00	229.45	197.55
B-59	D	W	09/23/2004 12:50	4533.53	4304.64	690.00	700.00	695.00	228.89	466.11
B-60	S	W	09/23/2004 12:30	4509.80	4304.64	268.00	278.00	273.00	205.16	67.84
B-61	D	W	09/23/2004 12:35	4518.37	4304.59	448.00	458.00	453.00	213.78	239.22
B-62	S	W	09/23/2004 12:40	4521.91	4304.54	270.00	280.00	275.00	217.37	57.63

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Table 1-2
Groundwater Elevation Data
Fall 2004
Tooele Army Depot

Well ID	Well Type	Well Dry (D) or Wet (W)	Date and Time Measured	Measuring Point Elevation (feet above MSL)	Water Elevation (Feet above MSL)	Screened Interval (Feet below MP)		Screen Midpoint (Feet below MP)	Measured Depth to Groundwater (Feet below MP)	Groundwater Elevation Relative to Screen Midpoint (feet below [neg] or above [pos] midpoint)
C-01	S	W	09/23/2004 12:05	4471.32	4297.40	280.00	290.00	285.00	173.92	111.08
C-02	S	W	09/23/2004 8:37	4445.37	4296.67	262.00	272.00	267.00	148.70	118.30
C-03	S	W	09/23/2004 8:53	4428.23	4295.85	258.00	268.00	263.00	132.38	130.62
C-04	S	W	09/23/2004 9:00	4413.34	4295.06	235.00	245.00	240.00	118.28	121.72
C-05	S	W	09/23/2004 9:22	4442.47	4302.60	242.00	252.00	247.00	139.87	107.13
C-06	S	W	09/23/2004 9:38	4474.86	4303.11	274.00	284.00	279.00	171.75	107.25
C-07	S	W	09/23/2004 9:45	4513.90	4303.56	304.00	314.00	309.00	210.34	98.66
C-08	S	W	09/23/2004 11:15	4532.21	4303.82	335.00	345.00	340.00	228.39	111.61
C-09	S	W	09/24/2004 11:25	4658.20	4358.28	348.00	368.00	358.00	299.92	58.08
C-10	S	W	09/24/2004 8:45	4682.94	4458.64	264.00	284.00	274.00	224.30	49.70
C-11	S	W	09/24/2004 8:50	4618.29	4357.07	280.00	300.00	290.00	261.22	28.78
C-12	S	W	09/23/2004 14:30	4743.93	4463.67	300.00	320.00	310.00	280.26	29.74
C-13	S	W	09/24/2004 12:04	4718.19	4460.46	288.00	308.50	298.25	257.73	40.52
C-14	S	W	09/24/2004 9:20	4703.40	4457.24	268.00	288.50	278.25	246.16	32.09
C-15	S	W	09/23/2004 15:06	4792.90	4464.88	329.00	349.60	339.30	328.02	11.28
C-16	S	W	09/23/2004 17:08	4819.76	4465.66	340.00	360.00	350.00	354.10	-4.10
C-17	S	W	09/23/2004 17:04	4822.14	4464.34	343.50	363.50	353.50	357.80	-4.30
C-18	S	W	09/23/2004 14:25	4762.57	4465.28	318.00	338.33	328.17	297.29	30.87
C-19	S	W	09/23/2004 16:57	4819.08	4470.38	353.00	373.00	363.00	348.70	14.30
C-20	S	W	09/23/2004 17:13	4811.29	4468.16	360.00	380.00	370.00	343.13	26.87
C-21	S	W	09/23/2004 14:52	4828.98	4467.21	358.50	378.50	368.50	361.77	6.73
C-22	S	W	09/23/2004 15:40	4825.31	4466.64	366.00	386.00	376.00	358.67	17.33
C-23	S	W	09/23/2004 16:40	4849.23	4476.67	384.00	404.00	394.00	372.56	21.44
C-24	S	W	09/23/2004 15:19	4819.76	4467.75	362.00	382.00	372.00	352.01	19.99
C-25	S	W	09/24/2004 10:35	4681.47	4357.92	350.00	370.00	360.00	323.55	36.45
C-26	S	W	09/23/2004 15:34	4824.80	4468.15	358.00	378.00	368.00	356.65	11.35
C-27	S	W	09/23/2004 15:34	4872.94	4464.82	409.00	429.00	419.00	408.12	10.88
C-28	S	W	09/23/2004 15:54	4876.85	4469.79	423.00	443.00	433.00	407.06	25.94
C-29	S	W	09/23/2004 15:58	4883.16	4470.01	414.00	434.00	424.00	413.15	10.85
C-30	S	W	09/23/2004 15:13	4751.87	4465.03	281.00	296.00	288.50	286.84	1.66
C-31	S	W	09/23/2004 15:02	4816.52	4466.75	355.00	370.00	362.50	349.77	12.73
C-32	S	W	09/23/2004 15:34	4857.73	4469.42	384.00	404.00	394.00	388.31	5.69
C-33	S	W	09/23/2004 15:29	4822.63	4467.90	353.00	373.00	363.00	354.73	8.27
C-34	S	W	09/23/2004 17:18	4802.49	4470.54	339.00	359.00	349.00	331.95	17.05

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Table 1-2
Groundwater Elevation Data
Fall 2004
Tooele Army Depot

Well ID	Well Type	Well Dry (D) or Wet (W)	Date and Time Measured	Measuring Point Elevation (feet above MSL)	Water Elevation (Feet above MSL)	Screened Interval (Feet below MP)		Screen Midpoint (Feet below MP)	Measured Depth to Groundwater (Feet below MP)	Groundwater Elevation Relative to Screen Midpoint (feet below [neg] or above [pos] midpoint)
C-35	S	W	09/24/2004 7:46	4784.64	4469.97	310.00	330.00	320.00	314.67	5.33
C-36	S	W	09/23/2004 17:26	4779.36	4505.71	270.00	285.00	277.50	273.65	3.85
C-37 **	D	W	09/23/2004 7:50	4784.19	4470.51	424.00	444.00	434.00	313.68	120.32
C-38	D	W	09/23/2004 14:33	4741.61	4461.24	492.00	512.00	502.00	280.37	221.63
C-39 **	D	W	09/23/2004 15:30	4820.78	4468.11	440.80	460.80	450.80	352.67	98.13
C-40	S	W	09/23/2004 11:22	4747.60	4471.92	264.00	294.00	279.00	275.68	3.32
D-01	S	W	09/23/2004 12:53	4636.86	4369.38	265.00	285.00	275.00	267.48	7.52
D-02	S	W	09/23/2004 14:17	4726.34	4371.78	355.00	375.00	365.00	354.56	10.44
D-03	S	W	09/23/2004 12:27	4546.08	4350.81	205.00	225.00	215.00	195.27	19.73
D-04	S	W	09/23/2004 13:08	4635.35	4370.17	275.00	295.00	285.00	265.18	19.82
D-05	S	W	09/23/2004 12:31	4556.67	4364.93	195.00	215.00	205.00	191.74	13.26
D-06	S	W	09/23/2004 12:46	4648.47	4369.16	280.00	300.00	290.00	279.31	10.69
D-07	S	W	09/23/2004 12:36	4556.54	4366.90	195.00	215.00	205.00	189.64	15.36
D-09	S	W	09/23/2004 13:32	4449.62	4330.68	128.00	148.00	138.00	118.94	19.06
D-10	S	W	09/23/2004 12:20	4477.52	4301.86	186.00	206.00	196.00	175.66	20.34
N-03A	S	W	09/23/2004 8:31	4726.23	4469.49	298.00	337.00	317.50	256.74	60.76
N-03H	S	W	09/23/2004 7:55	4716.36	4469.51	223.00	263.00	243.00	246.85	-3.85
N-03I	S	D	09/23/2004 8:06	4717.31	Dry	16.50	46.50	31.50		
N-04	S	NM		4664.20	NM	191.10	212.80	201.95	NM	
N-08B	S	W	09/23/2004 11:40	4473.55	4303.21	181.80	201.40	191.60	170.34	21.26
N-110-88	S	W	09/24/2004 9:17	4785.01	4469.97	278.00	317.00	297.50	315.04	-17.54
N-111-88	S	NM		4805.09	NM	317.00	337.30	327.15	NM	
N-112-88	S	W	09/23/2004 11:11	4801.07	4471.89	310.10	329.56	319.83	329.18	-9.35
N-114-88	S	W	09/24/2004 7:39	4797.74	4472.01	314.50	333.90	324.20	325.73	-1.53
N-115-88	S	W	09/24/2004 11:44	4751.83	4471.90	275.50	294.95	285.23	279.93	5.30
N-116-88	S	W	09/23/2004 11:38	4756.09	4472.09	265.25	284.50	274.88	284.00	-9.13
N-117-88	S	W	09/23/2004 11:56	4704.46	4472.26	220.25	234.50	227.38	232.20	-4.82
N-118-88	S	W	09/23/2004 16:50	4713.46	4472.29	240.25	259.75	250.00	241.17	8.83
N-119-88	S	D	09/24/2004 7:25	4751.66	Dry	266.15	275.15	270.65		
N-120-88	S	W	09/24/2004 7:34	4779.04	4471.40	300.00	319.50	309.75	307.64	2.11
N-127-88	S	W	09/23/2004 7:22	4704.29	4469.51	222.00	242.00	232.00	234.78	-2.78
N-128-88	S	W	09/23/2004 7:28	4703.88	4469.43	234.70	253.70	244.20	234.45	9.75
N-129-88	S	W	09/23/2004 7:30	4704.48	4468.58	223.00	242.85	232.93	235.90	-2.97
N-130-88	S	W	09/23/2004 7:41	4705.95	4469.18	224.70	244.40	234.55	236.77	-2.22

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Table 1-2
Groundwater Elevation Data
Fall 2004
Tooele Army Depot

Well ID	Well Type	Well Dry (D) or Wet (W)	Date and Time Measured	Measuring Point Elevation (feet above MSL)	Water Elevation (Feet above MSL)	Screened Interval (Feet below MP)		Screen Midpoint (Feet below MP)	Measured Depth to Groundwater (Feet below MP)	Groundwater Elevation Relative to Screen Midpoint (feet below [neg] or above [pos] midpoint)
N-131-90	S	W	09/23/2004 8:22	4692.62	4468.08	213.50	233.50	223.50	224.54	-1.04
N-132-90	S	W	09/23/2004 8:16	4692.51	4468.66	219.50	239.50	229.50	223.85	5.65
N-133-90	S	W	09/23/2004 7:48	4716.57	4467.25	246.00	266.00	256.00	249.32	6.68
N-134-90	S	W	09/23/2004 16:15	4657.81	4466.85	183.60	203.60	193.60	190.96	2.64
N-135-90	S	W	09/23/2004 12:03	4707.01	4470.19	226.60	246.60	236.60	236.82	-0.22
N-136-90	S	W	09/23/2004 11:31	4714.75	4469.15	233.10	253.00	243.05	245.60	-2.55
N-142-93	S	W	09/23/2004 10:40	4829.36	4474.17	355.00	375.00	365.00	355.19	9.81
N-143-93	S	W	09/23/2004 10:54	4798.22	4472.96	325.00	345.00	335.00	325.26	9.74
N-144-93	S	W	09/23/2004 11:17	4772.20	4472.29	290.50	310.50	300.50	299.91	0.59
N-146-97	S	W	09/23/2004 8:40	4728.92	4468.34	251.00	271.00	261.00	260.58	0.42
N-147-97	S	W	09/23/2004 8:36	4722.38	4468.06	244.20	264.20	254.20	254.32	-0.12
N-148-97	S	W	09/23/2004 7:36	4702.43	4467.85	224.50	244.50	234.50	234.58	-0.08
N-150-97	S	W	09/24/2004 7:28	4748.48	4469.50	269.00	289.00	279.00	278.98	0.02
P-01D	D	W	09/23/2004 16:25	4679.83	4469.14	485.00	495.00	490.00	210.69	279.31
P-01S	S	D	09/23/2004 16:30	4680.27	Dry	200.00	210.00	205.00		
P-03D	D	W	09/23/2004 15:50	4645.05	4450.77	444.00	454.00	449.00	194.28	254.72
P-03S	S	W	09/23/2004 15:53	4645.05	4466.20	190.00	200.00	195.00	178.85	16.15
P-04D	S	W	09/24/2004 11:10	4693.58	4468.18	356.00	366.00	361.00	225.40	135.60
P-04S	S	D	09/24/2004 11:15	4693.12	Dry	220.00	230.00	225.00		
P-05D	S	W	09/24/2004 8:09	4748.05	4467.75	305.00	315.00	310.00	280.30	29.70
P-05S	S	D	09/24/2004 8:07	4748.29	Dry	264.00	274.00	269.00		
P-06D	S	W	09/23/2004 14:45	4814.12	4467.12	440.00	450.00	445.00	347.00	98.00
P-06S	S	W	09/23/2004 14:47	4812.96	4467.06	358.00	368.00	363.00	345.90	17.10
P-07D	D	W	09/24/2004 9:15	4720.91	4458.53	414.00	424.00	419.00	262.38	156.62
P-07S	S	W	09/24/2004 9:10	4720.84	4462.32	290.00	300.00	295.00	258.52	36.48
P-08D	S	W	09/24/2004 10:42	4687.44	4359.57	358.00	368.00	363.00	327.87	35.13
P-08S	S	D	09/24/2004 10:45	4687.56	Dry	72.00	72.00	72.00		
P-09D	S	W	09/24/2004 9:38	4679.44	4358.37	414.00	424.00	419.00	321.07	97.93
P-09S	S	D	09/24/2004 9:35	4679.56	Dry	289.00	299.00	294.00		
P-10D	S	W	09/24/2004 8:15	4680.72	4377.75	322.00	332.00	327.00	302.97	24.03
P-10S	S	W	09/24/2004 8:10	4681.20	4459.36	222.00	232.00	227.00	221.84	5.16
P-11D	S	W	09/24/2004 9:05	4587.76	4356.78	358.00	368.00	363.00	230.98	132.02
P-11S	S	W	09/24/2004 9:00	4587.71	4353.87	234.00	244.00	239.00	233.84	5.16
P-12D	S	W	09/24/2004 7:55	4603.99	4356.66	285.00	295.00	290.00	247.33	42.67

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Table 1-2
Groundwater Elevation Data
Fall 2004
Tooele Army Depot

Well ID	Well Type	Well Dry (D) or Wet (W)	Date and Time Measured	Measuring Point Elevation (feet above MSL)	Water Elevation (Feet above MSL)	Screened Interval (Feet below MP)		Screen Midpoint (Feet below MP)	Measured Depth to Groundwater (Feet below MP)	Groundwater Elevation Relative to Screen Midpoint (feet below [neg] or above [pos] midpoint)
P-12S	S	D	09/24/2004 7:50	4603.95	Dry	230.00	240.00	235.00		
P-13D	D	W	09/23/2004 15:20	4598.86	4309.35	580.00	590.00	585.00	289.51	295.49
P-13S	S	D	09/23/2004 15:25	4598.85	Dry	280.00	290.00	285.00		
P-14D	S	W	09/24/2004 10:25	4644.18	4357.66	348.00	358.00	353.00	286.52	66.48
P-14S	S	D	09/24/2004 10:35	4644.41	Dry	262.00	272.00	267.00		
P-15D	D	W	09/23/2004 13:12	4539.61	4304.56	498.00	508.00	503.00	235.05	267.95
P-15S	S	D	09/23/2004 13:08	4539.41	Dry	224.00	234.00	229.00		
P-16D	D	W	09/23/2004 14:35	4558.59	4305.54	626.00	636.00	631.00	253.05	377.95
P-16S	S	W	09/23/2004 14:30	4558.59	4306.94	264.00	274.00	269.00	251.65	17.35
P-17D	D	W	09/23/2004 13:28	4537.90	4306.93	556.00	566.00	561.00	230.97	330.03
P-17S	S	D	09/23/2004 13:25	4538.03	Dry	218.00	228.00	223.00		
P-18D	S	W	09/24/2004 11:09	4672.53	4357.56	376.00	386.00	381.00	314.97	66.03
P-18S	S	D	09/24/2004 11:07	4672.43	Dry	300.00	310.00	305.00		
P-19D	D	W	09/23/2004 12:20	4504.85	4304.85	544.00	554.00	549.00	200.00	349.00
P-19S	S	W	09/23/2004 12:18	4504.59	4301.16	300.00	310.00	305.00	203.43	101.57
P-20D	D	W	09/23/2004 10:50	4493.14	4304.75	590.00	600.00	595.00	188.39	406.61
P-20S	S	D	09/23/2004 10:55	4492.93	Dry	180.00	190.00	185.00		
P-21D	D	W	09/23/2004 14:00	4552.40	4307.54	485.00	495.00	490.00	244.86	245.14
P-21S	S	W	09/23/2004 14:05	4552.23	4307.20	238.00	248.00	243.00	245.03	-2.03
P-22D	D	W	09/23/2004 14:15	4552.01	4307.36	485.00	495.00	490.00	244.65	245.35
P-22S	S	W	09/23/2004 14:12	4552.12	4307.33	370.00	380.00	375.00	244.79	130.21
P-23D	D	W	09/23/2004 14:25	4552.00	4306.80	460.00	470.00	465.00	245.20	219.80
P-23S	S	W	09/23/2004 14:20	4552.16	4306.72	0.00	330.00	165.00	245.44	-80.44
P-24D	D	W	09/23/2004 14:00	4550.68	4307.11	460.00	470.00	465.00	243.57	221.43
P-24S	S	D	09/23/2004 13:55	4550.63	Dry	233.00	238.00	235.50		
P-25D	D	W	09/23/2004 16:00	4640.83	4462.32	460.00	470.00	465.00	178.51	286.49
P-25S	S	W	09/23/2004 15:58	4641.00	4465.71	214.00	224.00	219.00	175.29	43.71
P26D	D	W	09/23/2004 17:05	4585.59	4356.40	457.00	467.00	462.00	229.19	232.81
P-26S	S	W	09/23/2004 17:10	4585.05	4307.58	300.00	310.00	305.00	277.47	27.53
P-27D	D	W	09/24/2004 7:35	4600.66	4356.73	665.00	675.00	670.00	243.93	426.07
P-27S	S	D	09/24/2004 7:30	4600.50	Dry	230.00	235.00	232.50		
P-28D	D	W	09/23/2004 11:48	4454.46	4303.79	480.00	490.00	485.00	150.67	334.33
P-28S	S	D	09/23/2004 11:45	4454.28	Dry	170.00	180.00	175.00		
P-29	S	W	09/23/2004 16:10	4655.61	4467.59	232.00	242.00	237.00	188.02	48.98

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Table 1-2
Groundwater Elevation Data
Fall 2004
Tooele Army Depot

Well ID	Well Type	Well Dry (D) or Wet (W)	Date and Time Measured	Measuring Point Elevation (feet above MSL)	Water Elevation (Feet above MSL)	Screened Interval (Feet below MP)		Screen Midpoint (Feet below MP)	Measured Depth to Groundwater (Feet below MP)	Groundwater Elevation Relative to Screen Midpoint (feet below [neg] or above [pos] midpoint)
P-30	S	D	09/24/2004 7:45	4600.59	Dry	230.00	235.00	232.50		
P-31	S	D	09/24/2004 7:40	4600.37	Dry	230.00	235.00	232.50		
P-32	S	W	09/23/2004 8:40	4446.12	4296.73	255.00	265.00	260.00	149.39	110.61
P-33	S	W	09/23/2004 8:57	4429.40	4295.99	250.00	260.00	255.00	133.41	121.59
P-34	S	W	09/24/2004 6:45	4431.83	4295.92	245.00	255.00	250.00	135.91	114.09
P-35	S	W	09/23/2004 9:06	4418.14	4295.40	239.00	249.00	244.00	122.74	121.26
P-36	S	W	09/23/2004 11:55	4490.25	4298.33	295.00	305.00	300.00	191.92	108.08
P-37	S	W	09/23/2004 10:18	4430.80	4297.08	250.00	260.00	255.00	133.72	121.28
P-38	S	W	09/23/2004 10:12	4441.28	4302.97	265.00	275.00	270.00	138.31	131.69
P-39	S	W	09/23/2004 8:00	4446.90	4302.30	257.00	267.00	262.00	144.60	117.40
P-40	S	W	09/23/2004 15:35	4605.31	4444.46	276.00	296.00	286.00	160.85	125.15
P-41	D	W	09/23/2004 15:38	4605.24	4457.35	466.00	486.00	476.00	147.89	328.11
P-42	S	W	09/23/2004 14:50	4580.03	4309.33	280.00	300.00	290.00	270.70	19.30
P-43	D	W	09/23/2004 14:54	4580.01	4308.77	550.00	570.00	560.00	271.24	288.76
P-44	D	W	09/24/2004 8:45	4619.20	4357.25	480.00	500.00	490.00	261.95	228.05
T-02	S	W	09/24/2004 10:53	4690.25	4443.13	233.58	263.58	248.58	247.12	1.46
T-03	S	W	09/24/2004 11:00	4683.31	4467.49	238.90	268.90	253.90	215.82	38.08
T-04	S	W	09/23/2004 15:15	4619.89	4449.26	165.08	195.08	180.08	170.63	9.45
T-05	S	W	09/24/2004 7:15	4611.87	4357.26	300.36	330.36	315.36	254.61	60.75
T-06	S	W	09/23/2004 15:05	4599.45	4345.37	241.13	271.13	256.13	254.08	2.05
T-07	S	W	09/23/2004 11:00	4795.47	4472.35	306.61	337.61	322.11	323.12	-1.01
WW-07	D	W	09/23/2004 14:10	4552.50	4307.20	440.00	490.00	465.00	245.30	219.70
WW-08	S	W	09/24/2004 7:37	4598.52	4357.10	215.00	250.00	232.50	241.42	-8.92

NM = Not Measured

MSL = Mean Sea Level

Table 1-3
Detected Analytes in Groundwater Samples - Fall 2004
Tooele Army Depot

WELL ID	SWMU	SAMPLE ID	SAMPLING DATE	METHOD	ANALYTE	RESULT	QUALIFIER	QUALIFIER REASON	PQL	DF	UNITS
A-02A	2	TEAD-11-04-A02A-DF-290	11/15/2004 13:15	SW8260B	Trichloroethene (TCE)	31			1	1	µg/L
					1,2-Dichloroethene	0.23	J	TR	1	1	µg/L
B-03	2/58	TEAD-11-04-B03-DF-273	11/22/2004 13:40	SW8260B	Carbon Tetrachloride	27			10	10	µg/L
					Chloroform	0.81	J	TR	1	1	µg/L
					Trichloroethene (TCE)	94			10	10	µg/L
					Tetrachloroethene (PCE)	0.3	J	TR	1	1	µg/L
					1,1-Dichloroethane	0.96	J	TR	1	1	µg/L
B-05	2	TEAD-11-04-B05-DF-437	11/22/2004 13:05	SW8260B	1,1-Dichloroethene	0.85	J	TR	1	1	µg/L
					Carbon Tetrachloride	10			1	1	µg/L
					Chloroform	1.7			1	1	µg/L
					Trichloroethene (TCE)	75			10	10	µg/L
					Tetrachloroethene (PCE)	0.4	J	TR	1	1	µg/L
B-06	2	TEAD-11-04-B06-DF-297	11/22/2004 10:45	SW8260B	Trichloroethene (TCE)	6.2			1	1	µg/L
B-07	2	TEAD-11-04-B07-DF-290	11/15/2004 14:00	SW8260B	1,1-Dichloroethane	0.43	J	TR	1	1	µg/L
					Carbon Tetrachloride	0.37	J	TR	1	1	µg/L
					Chloroform	0.54	J	TR	1	1	µg/L
					Trichloroethene (TCE)	26			1	1	µg/L
B-09	2/58	TEAD-11-04-B09-DF-380	11/18/2004 9:00	SW8260B	Carbon Tetrachloride	4.2			1	1	µg/L
					Chloroform	0.33	J	TR	1	1	µg/L
					Trichloroethene (TCE)	18			1	1	µg/L
B-10	2/58	TEAD-11-04-B10-DF-294	11/18/2004 9:50	SW8260B	Carbon Tetrachloride	5			1	1	µg/L
					Trichloroethene (TCE)	31			1	1	µg/L
B-12	2	TEAD-11-04-B12-DF-270	11/22/2004 10:15	SW8260B	1,1-Dichloroethane	0.29	J	TR	1	1	µg/L
					Carbon Tetrachloride	1.4			1	1	µg/L
					Trichloroethene (TCE)	14			1	1	µg/L
B-16	2/58	TEAD-11-04-B16-DF-290	11/18/2004 11:10	SW8260B	Carbon Tetrachloride	0.33	J	TR	1	1	µg/L
					Trichloroethene (TCE)	1.2			1	1	µg/L
B-17	2	TEAD-11-04-B17-DF-450	11/18/2004 12:55	SW8260B	Trichloroethene (TCE)	3			1	1	µg/L
B-18	2	TEAD-11-04-B18-DF-220	11/18/2004 13:10	SW8260B	Trichloroethene (TCE)	2.1			1	1	µg/L
B-19	2	TEAD-11-04-B19-DF-266	11/15/2004 15:05	SW8260B	Trichloroethene (TCE)	1.8			1	1	µg/L

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Tooele Army Depot

WELL ID	SWMU	SAMPLE ID	SAMPLING DATE	METHOD	ANALYTE	RESULT	QUALIFIER	QUALIFIER REASON	PQL	DF	UNITS
B-21	2	TEAD-11-04-B21-DF-261	11/22/2004 14:20	SW8260B	1,1-Dichloroethene	0.51	J	TR	1	1	µg/L
					Chloroform	0.33	J	TR	1	1	µg/L
					Carbon Tetrachloride	7.8			1	1	µg/L
					Tetrachloroethene (PCE)	0.48	J	TR	1	1	µg/L
					Trichloroethene (TCE)	57			1	1	µg/L
					Xylenes	0.85	J	TR	1	1	µg/L
B-22	2	TEAD-11-04-B22-DF-365	11/22/2004 14:00	SW8260B	Carbon Tetrachloride	2.5			1	1	µg/L
					Tetrachloroethene (PCE)	0.34	J	TR	1	1	µg/L
					Trichloroethene (TCE)	20			1	1	µg/L
B-24	2/58	TEAD-11-04-B24-DF-387	11/22/2004 12:00	SW8260B	Carbon Tetrachloride	4.6			1	1	µg/L
					Trichloroethene (TCE)	4.1			10	10	µg/L
					Chloroform	0.22	J	TR	1	1	µg/L
B-26	2/58	TEAD-11-04-B26-DF-325	11/15/2004 13:00	SW8260B	1,1,1-Trichloroethane	1.7			1	1	µg/L
					1,1-Dichloroethene	12			1	1	µg/L
					Carbon Tetrachloride	22			1	1	µg/L
					Chloroform	0.88	J	TR	1	1	µg/L
					Tetrachloroethene (PCE)	32			1	1	µg/L
					Trichloroethene (TCE)	210			10	10	µg/L
B-27	2	TEAD-11-04-B27-DF-266	11/22/2004 13:20	SW8260B	1,4-dioxane	2.2	J	S	1	1	µg/L
					1,1,1-Trichloroethane	0.2	J	TR	1	1	µg/L
					1,1-Dichloroethene	1.7			1	1	µg/L
					Carbon Tetrachloride	23			1	1	µg/L
					Chloroform	0.61	J	TR	1	1	µg/L
					Tetrachloroethene (PCE)	4.7			1	1	µg/L
					Trichloroethene (TCE)	95			10	10	µg/L
B-30	2	TEAD-11-04-B30-DF-237	11/18/2004 14:25	SW8260B	Trichloroethene (TCE)	4.5			1	1	µg/L
B-31	2	TEAD-11-04-B31-DF-436	11/18/2004 11:00	SW8260B	Trichloroethene (TCE)	0.37	J	TR	1	1	µg/L
B-32	2	TEAD-11-04-B32-DF-230	11/18/2004 12:35	SW8260B	Carbon Tetrachloride	0.38	J	TR	1	1	µg/L
					Trichloroethene (TCE)	2			1	1	µg/L
B-34	2	TEAD-11-04-B34-DF-236	11/15/2004 14:30	SW8260B	Trichloroethene (TCE)	3.4			1	1	µg/L
B-35	2	TEAD-11-04-B35-DF-224	11/15/2004 14:45	SW8260B	Trichloroethene (TCE)	5.6			1	1	µg/L
B-37	2	TEAD-11-04-B37-DF-201	11/17/2004 11:15	SW8260B	Trichloroethene (TCE)	3.5			1	1	µg/L
B-40	2	TEAD-11-04-B40-DF-182	11/17/2004 10:55	SW8260B	Trichloroethene (TCE)	5.8			1	1	µg/L
B-50	2	TEAD-11-04-B50-DF-245	11/17/2004 10:40	SW8260B	Trichloroethene (TCE)	0.22	J	TR	1	1	µg/L

Table 1-3
Detected Analytes in Groundwater Samples - Fall 2004
Tooele Army Depot

WELL ID	SWMU	SAMPLE ID	SAMPLING DATE	METHOD	ANALYTE	RESULT	QUALIFIER	QUALIFIER REASON	PQL	DF	UNITS
B-54	2	TEAD-11-04-B54-DF-362	11/17/2004 14:30	SW8260B	Carbon Tetrachloride	6.5	J	C	1	1	µg/L
					Chloroform	1			1	1	µg/L
					Trichloroethene (TCE)	16			1	1	µg/L
B-56	2	TEAD-11-04-B56-DF-662	11/22/2004 12:20	SW8260B	1,1-Dichloroethane	0.59	J	TR	1	1	µg/L
					Trichloroethene (TCE)	3.1			1	1	µg/L
B-59	2	TEAD-11-04-B59-DF-695	11/18/2004 14:00	SW8260B	Trichloroethene (TCE)	0.63	J	TR	1	1	µg/L
B-62	2	TEAD-11-04-B62-DF-279	11/18/2004 13:50	SW8260B	1,1-Dichloroethane	0.31	J	TR	1	1	µg/L
					Carbon Tetrachloride	0.53	J	TR	1	1	µg/L
					Trichloroethene (TCE)	16			1	1	µg/L
C-08	2/58	TEAD-11-04-C08-DF-340	11/18/2004 10:40	SW8260B	Carbon Tetrachloride	0.74	J	TR	1	1	µg/L
					Trichloroethene (TCE)	4.6			1	1	µg/L
C-09	2	TEAD-11-04-C09-DF-364	11/15/2004 13:30	SW8260B	Carbon Tetrachloride	3.2			1	1	µg/L
					Chloroform	1.4			1	1	µg/L
					Trichloroethene (TCE)	50			10	10	µg/L
					Tetrachloroethene (PCE)	0.21	J	TR	1	1	µg/L
		TEAD-11-04-C-09-KA	11/16/2004 12:15	SW8270SIM	1,4-dioxane	0.74	J	TR	1	1	µg/L
C-10	2/58	TEAD-11-04-C10-DF-270	11/18/2004 10:10	SW8260B	Chloroform	0.23	J	TR	1	1	µg/L
					Carbon Tetrachloride	160			25	25	µg/L
					Trichloroethene (TCE)	2.1			1	1	µg/L
C-11	2/58	TEAD-11-04-C11-DF-301	11/18/2004 10:25	SW8260B	Carbon Tetrachloride	1.7			1	1	µg/L
					Trichloroethene (TCE)	33			1	1	µg/L
C-12	2/58	TEAD-11-04-C12-DF-305	11/23/2004 10:00	SW8260B	Carbon Tetrachloride	0.46	J	TR	1	1	µg/L
					Trichloroethene (TCE)	100			25	25	µg/L
C-13	2/58	TEAD-11-04-C13-DF-311	11/17/2004 13:50	SW8260B	Carbon Tetrachloride	0.27	J	TR	1	1	µg/L
					Trichloroethene (TCE)	120			10	10	µg/L
C-14	2/58	TEAD-11-04-C14-DF-275	11/18/2004 9:30	SW8260B	Chloroform	0.29	J	TR	1	1	µg/L
					Carbon Tetrachloride	11			1	1	µg/L
					Trichloroethene (TCE)	25			1	1	µg/L
C-15	2/58	TEAD-11-04-C15-DF-349	11/17/2004 14:20	SW8260B	Chloroform	0.22	J	TR	1	1	µg/L
					Trichloroethene (TCE)	21			1	1	µg/L

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Detected Analytes in Groundwater Samples - Fall 2004
Tooele Army Depot

WELL ID	SWMU	SAMPLE ID	SAMPLING DATE	METHOD	ANALYTE	RESULT	QUALIFIER	QUALIFIER REASON	PQL	DF	UNITS
C-17	2/58	TEAD-11-04-C17-DF-357	11/15/2004 11:20	SW8260B	1,2-Dichloroethane	0.61	J	TR	1	1	µg/L
					1,1-Dichloroethene	0.26	J	TR	1	1	µg/L
					Chloroform	3.6			1	1	µg/L
					Carbon Tetrachloride	9.3			1	1	µg/L
					Trichloroethene (TCE)	13			1	1	µg/L
		TEAD-11-04-C17-KA	11/16/2004 13:00	SW8270SIM	1,4-dioxane	1	J	TR	1	1	µg/L
C-19	2/58	TEAD-11-04-C19-DF-364	11/15/2004 11:00	SW8260B	1,1,1-Trichloroethane	0.9	J	TR	1	1	µg/L
					1,1-Dichloroethane	0.21	J	TR	1	1	µg/L
					1,1-Dichloroethene	2.5			1	1	µg/L
					Chloroform	0.85	J	TR	1	1	µg/L
					Carbon Tetrachloride	0.24	J	TR	1	1	µg/L
		TEAD-11-04-C19-KA	11/16/2004 15:20	SW8270SIM	Trichloroethene (TCE)	490			100	100	µg/L
C-20	2/58	TEAD-11-04-C20-DF-364	11/17/2004 15:30	SW8260B	1,4-dioxane	26	J	S	1	1	µg/L
					Chloroform	0.49	J	TR	1	1	µg/L
C-21	2/58	TEAD-11-04-C2-DF-362	11/15/2004 10:30	SW8260B	Carbon Tetrachloride	4.1			1	1	µg/L
					1,2 dichloroethene	3.2			1	1	µg/L
					1,1-Dichloroethane	0.31	J	TR	1	1	µg/L
					1,1-Dichloroethene	0.46	J	TR	1	1	µg/L
					Chloroform	1.1			1	1	µg/L
					Carbon Tetrachloride	0.35	J	TR	1	1	µg/L
					Trichloroethene (TCE)	72			10	10	µg/L
		TEAD-11-04-C21-KA	11/17/2004 11:00	SW8270SIM	1,4-dioxane	1.9			1	1	µg/L
C-25	2	TEAD-11-04-C25-DF-370	11/22/2004 12:45	SW8260B	1,1-Dichloroethane	1.2			1	1	µg/L
					Chloroform	0.31	J	TR	1	1	µg/L
					Carbon Tetrachloride	14			1	1	µg/L
					Trichloroethene (TCE)	15			1	1	µg/L
C-26	2/58	TEAD-11-04-C26-DF-364	11/17/2004 15:10	SW8260B	Chloroform	0.36	J	TR	1	1	µg/L
					Carbon Tetrachloride	0.67	J	TR	1	1	µg/L
					Trichloroethene (TCE)	490			25	25	µg/L
C-30	2/58	TEAD-11-04-C30-DF-287	11/17/2004 12:55	SW8260B	Carbon Tetrachloride	11	J	C	1	1	µg/L
					Trichloroethene (TCE)	3.4			1	1	µg/L
C-32	2/58	TEAD-11-04-C32-DF-394	11/22/2004 9:30	SW8260B	Carbon Tetrachloride	4.1			1	1	µg/L

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Tooele Army Depot

WELL ID	SWMU	SAMPLE ID	SAMPLING DATE	METHOD	ANALYTE	RESULT	QUALIFIER	QUALIFIER REASON	PQL	DF	UNITS
C-33	2/58	TEAD-11-04-C33-DF-369	11/17/2004 14:50	SW8260B	1,2-Dichloroethane	0.21	J	TR	1	1	µg/L
					Chloroform	1.7			1	1	µg/L
					Carbon Tetrachloride	2.7			1	1	µg/L
					Trichloroethene (TCE)	1600			100	100	µg/L
					Tetrachloroethene (PCE)	0.28	J	TR	1	1	µg/L
C-34	2/58	TEAD-11-04-C34-DF-359	11/22/2004 14:40	SW8260B	1,2-Dichloroethane	1.6			1	1	µg/L
					1,1-Dichloroethene	0.38	J	TR	1	1	µg/L
					Carbon Tetrachloride	28			1	1	µg/L
					Chloroform	1.7			1	1	µg/L
					Trichloroethene (TCE)	18			1	1	µg/L
					1,1,1-Trichloroethane	0.25	J	TR	1	1	µg/L
C-35	2	TEAD-11-04-C35-DF-321	11/15/2004 12:30	SW8260B	1,1,1-Trichloroethane	4.4			1	1	µg/L
					1,1-Dichloroethene	9.7			1	1	µg/L
					1,1-Dichloroethane	0.35	J	TR	1	1	µg/L
					1,2 dichloroethene	2.7			1	1	µg/L
					Chloroform	0.36	J	TR	1	1	µg/L
					Trichloroethene (TCE)	30			25	25	µg/L
					Tetrachloroethene (PCE)	61			25	25	µg/L
C-37	2/58	TEAD-11-04-C-35-KA	11/16/2004 11:20	SW8270SIM	1,4-dioxane	7.4			1	1	µg/L
		TEAD-11-04-C37-DF-428	11/15/2004 12:45	SW8260B	Trichloroethene (TCE)	19	J	L	1	1	µg/L
		TEAD-11-04-C37-KA	11/16/2004 13:45	SW8270SIM	1,4-dioxane	0.86	J	TR	1	1	µg/L
C-39	2/58	TEAD-11-04-C39-DF-447	11/17/2004 14:45	SW8260B	Benzene	0.33	J	TR	1	1	µg/L
C-40	12/15	TEAD-11-04-C40-DF-285	11/23/2004 13:00	SW8260B	1,1,1-Trichloroethane	0.29	J	TR	1	1	µg/L
					1,1-Dichloroethene	0.3	J	TR	1	1	µg/L
					1,2-Dichloroethene	5.6			1	1	µg/L
					Chloroform	0.32	J	TR	1	1	µg/L
					Trichloroethene (TCE)	290			50	50	µg/L
					Tetrachloroethene (PCE)	3.5			1	1	µg/L
D-01	58	TEAD-11-04-D01-DF-272	11/16/2004 14:55	SW8260B	Carbon Tetrachloride	0.4	J	TR	1	1	µg/L
					Trichloroethene (TCE)	39			1	1	µg/L
D-02	58	TEAD-11-04-D2-DF-362	11/16/2004 11:30	SW8260B	Carbon Tetrachloride	0.4	J	TR	1	1	µg/L
					Trichloroethene (TCE)	13			1	1	µg/L
D-03	58	TEAD-11-04-D03-DF-212	11/16/2004 14:05	SW8260B	Trichloroethene (TCE)	5.9	J	C	1	1	µg/L

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Detected Analytes in Groundwater Samples - Fall 2004
Tooele Army Depot

WELL ID	SWMU	SAMPLE ID	SAMPLING DATE	METHOD	ANALYTE	RESULT	QUALIFIER	QUALIFIER REASON	PQL	DF	UNITS
D-04	58	TEAD-11-04-D04-DF-279	11/16/2004 13:30	SW8260B	Carbon Tetrachloride	1.3			1	1	µg/L
					Chloroform	0.27	J	TR	1	1	µg/L
					Trichloroethene (TCE)	170	J	C	10	10	µg/L
					Tetrachloroethene (PCE)	0.28	J	TR	1	1	µg/L
D-05	58	TEAD-11-04-D05-DF-202	11/16/2004 14:25	SW8260B	Trichloroethene (TCE)	22			1	1	µg/L
D-06	58	TEAD-11-04-D06-DF-287	11/16/2004 15:15	SW8260B	Chloroform	0.45	J	TR	1	1	µg/L
					Trichloroethene (TCE)	1.4			1	1	µg/L
D-07	58	TEAD-11-04-D07-DF-212	11/16/2004 14:40	SW8260B	Chloroform	0.22	J	TR	1	1	µg/L
					Trichloroethene (TCE)	9.1			1	1	µg/L
					Carbon Tetrachloride	0.52	J	TR	1	1	µg/L
D-10	58	TEAD-11-04-D10-DF-193	11/16/2004 12:45	SW8260B	Trichloroethene (TCE)	1			1	1	µg/L
N-115-88	12/15	TEAD-11-04-N11588-DF-285	11/23/2004 12:20	SW8260B	Trichloroethene (TCE)	0.27	J	TR	1	1	µg/L
N-116-88	12/15	TEAD-11-04-N11688-DF-285	11/23/2004 12:40	SW8260B	1,2-Dichloroethene	2.4			1	1	µg/L
					Chloroform	0.29	J	TR	1	1	µg/L
					Trichloroethene (TCE)	16			1	1	µg/L
N-117-88	12/15	TEAD-11-04-N11788-DF-237	11/23/2004 12:00	SW8260B	Trichloroethene (TCE)	1.8			1	1	µg/L
N-120-88	12/15	TEAD-11-04-N12088-DF-321	11/23/2004 11:00	SW8260B	1,1-Dichloroethene	0.21	J	TR	1	1	µg/L
					1,1-Dichloroethane	0.89	J	TR	1	1	µg/L
					1,2-Dichloroethene	2.5			1	1	µg/L
					1,1,1-Trichloroethane	0.97	J	TR	1	1	µg/L
					Trichloroethene (TCE)	480			100	100	µg/L
					Tetrachloroethene (PCE)	11			1	1	µg/L
N-135-90	12/15	TEAD-11-04-N13590-DF-240	11/23/2004 11:30	SW8260B	Trichloroethene (TCE)	5.5			1	1	µg/L
N-150-97	12/15	TEAD-11-04-N15097-DF-281	11/23/2004 10:45	SW8260B	1,1-Dichloroethene	0.29	J	TR	1	1	µg/L
					1,1-Dichloroethane	0.23	J	TR	1	1	µg/L
					1,2-Dichloroethene	8.6			1	1	µg/L
					1,1,1-Trichloroethane	0.32	J	TR	1	1	µg/L
					Chloroform	0.34	J	TR	1	1	µg/L
					Trichloroethene (TCE)	190			100	100	µg/L
					Tetrachloroethene (PCE)	3.9			1	1	µg/L
T-06	2	TEAD-11-04-T06-DF-261	11/22/2004 11:00	SW8260B	Trichloroethene (TCE)	22			1	1	µg/L

Table 1-3
Detected Analytes in Groundwater Samples - Fall 2004
Tooele Army Depot

NOTES:

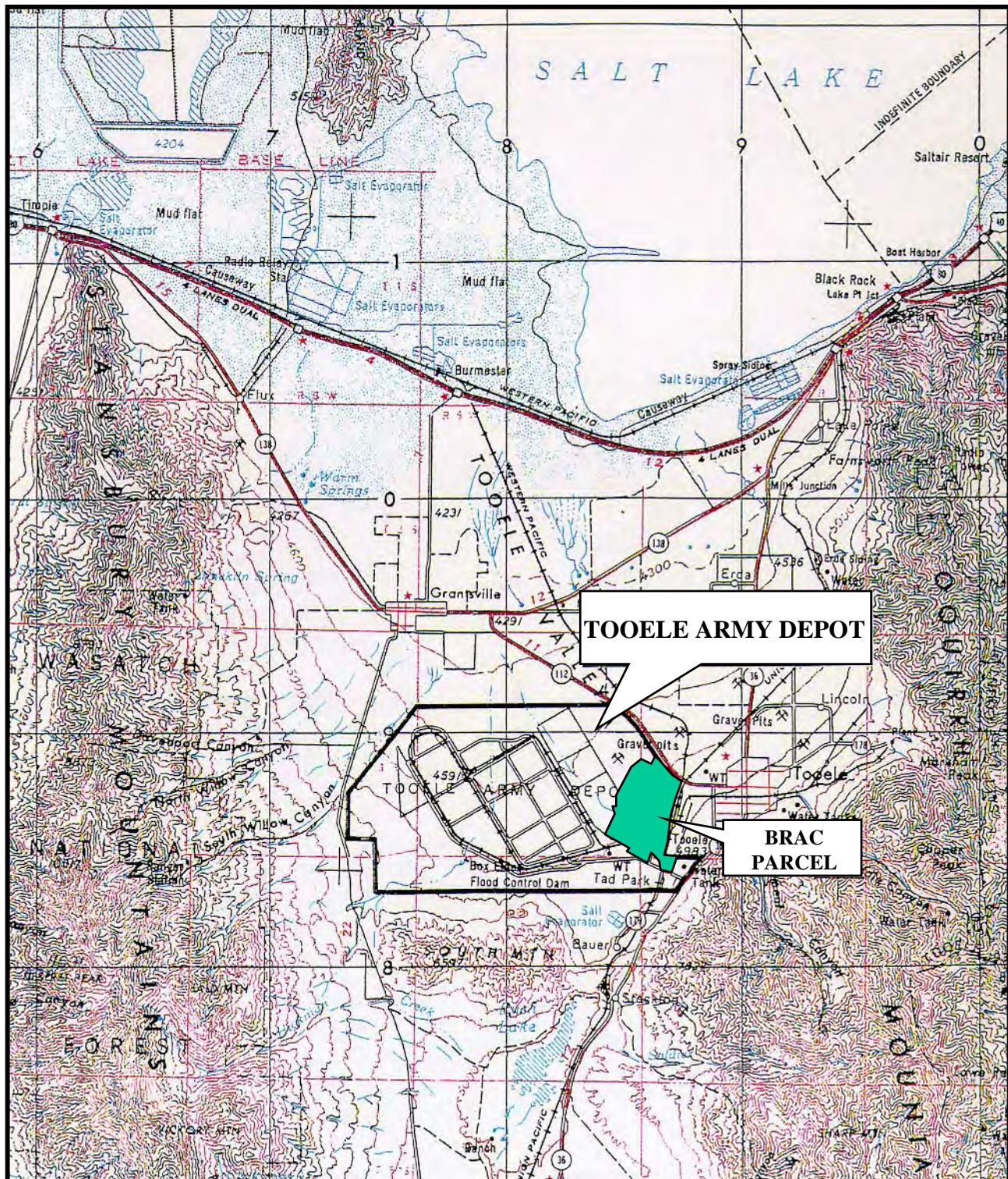
J = The analyte was positively identified; associated numerical value is the approximate concentration in the sample.
 ug/L = micrograms per liter
 PQL = Practical Quantitation Limit
 DF = Sample Dilution Factor

QUALIFIER REASON AND COMMENT CODE DEFINITIONS:

REASONS

<u>Code</u>	<u>Definition</u>	<u>Code</u>	<u>Definition</u>
A	Serial dilution	P	Column RPD
B	Negative Blank	Q	Material Blank
	Calibration Blank – Negative	S	Surrogate
B1	Blank	T	Receipt Temperature
B2	Calibration Blank	TR	Trace value reported between the MDL and PQL
C	Continuing Calibration Verification	W	Column breakdown (pesticides)
	Continuing Calibration Verification RRF	X	Raised reporting limit
D	BS RPD	Y	Analyte not confirmed on second column
	Field Duplicate RPD		
D1	Lab Replicate RPD		
D2	MS RPD	C1	Diluted Out
E	Exceeds Linear Calibration Range	C2	Flag Parent Only
F	Hydrocarbon pattern does not match standard	C2S	Flag Parent (Soil); Batch (Water)
G	Initial Calibration RRF	C3	No Action
	Initial Calibration RSD	C4	No QC Outliers
H	Test Hold Time	C5	One or both values <5x RL
	Prep Hold Time	C6	Recalculated Value
I	Internal standard	C7	Material Blanks
K1	Equip Blank	C8	Spike Insignificant
K2	Field Blank	C9	No Flags; set to ND by method/calibration blank
K3	Trip Blank		
L	LCS Recovery		
M	MS Recovery		
N	Blank – No Action		
O	Interference check sample		

FIGURES



BASE MAP:
USGS TOOELE, UTAH
1 X 2 QUADRANGLE, 1970

0 1 2 3 4 5

SCALE IN MILES



Adapted from: Montgomery Watson



U. S. Army Corps of Engineers
Sacramento District

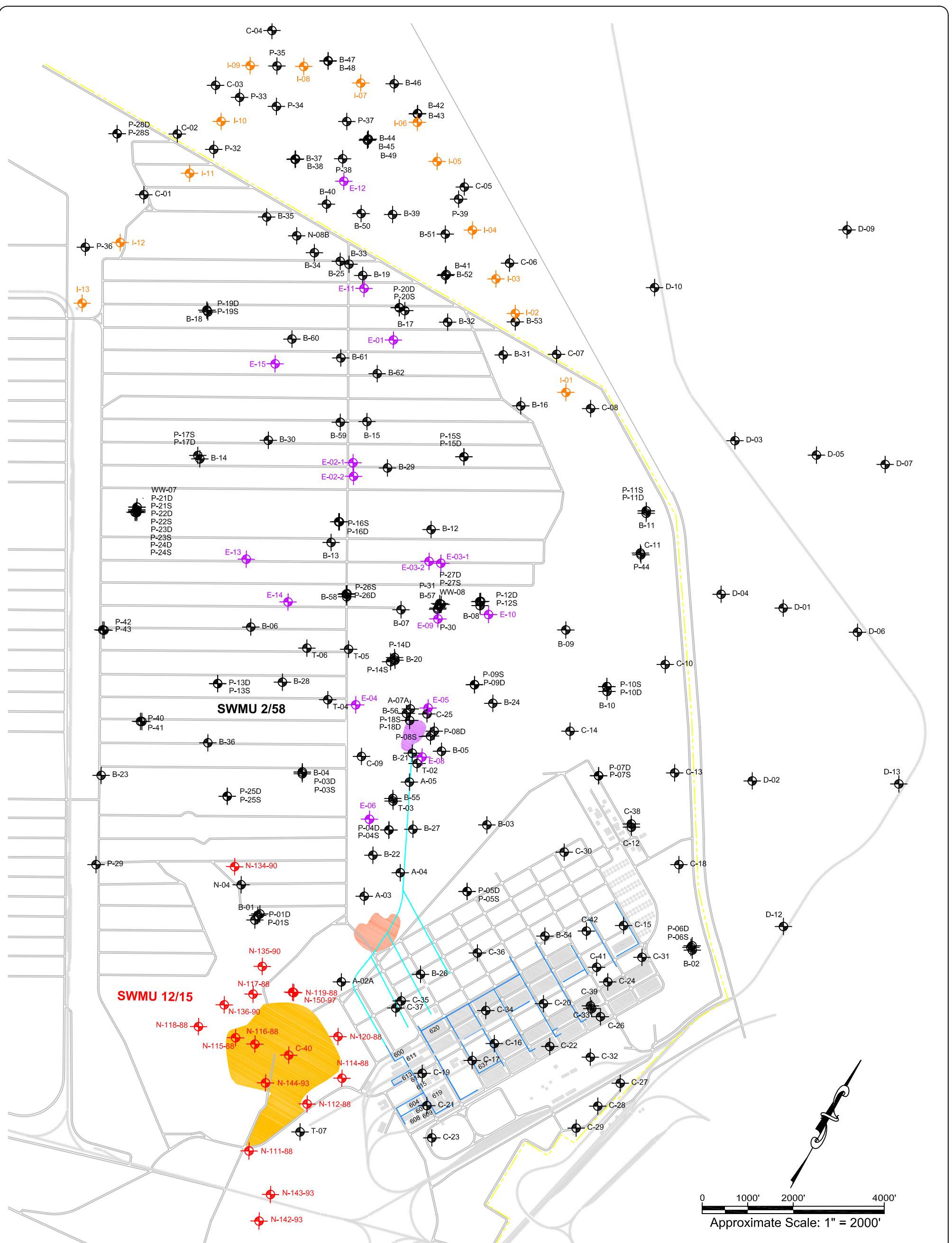
Date: 03/09/2004

**TOOELE ARMY DEPOT
LOCATION MAP**

SLC4Q051.ppt

FIGURE

1-1



LEGEND

- | | |
|---|---|
| DEPOT PROPERTY BOUNDARY LINE | MONITORING WELL LOCATION FOR SWMU 12/15 |
| INDUSTRIAL WASTE LAGOON* | MONITORING WELL LOCATION AND PIEZOMETER FOR SWMU 2/58 |
| OLD INDUSTRIAL WASTE LAGOON* | EXTRACTION WELL LOCATION |
| SANITARY LANDFILL | INJECTION WELL LOCATION |
| *LOCATIONS ARE APPROXIMATE, BASED ON RUST, 1996 | |
| STORMWATER/INDUSTRIAL WASTEWATER PIPING* | |
| UNLINED DITCHES | |

*LOCATIONS ARE APPROXIMATE, BASED ON RUST, 1996

SLC4d296.dwg



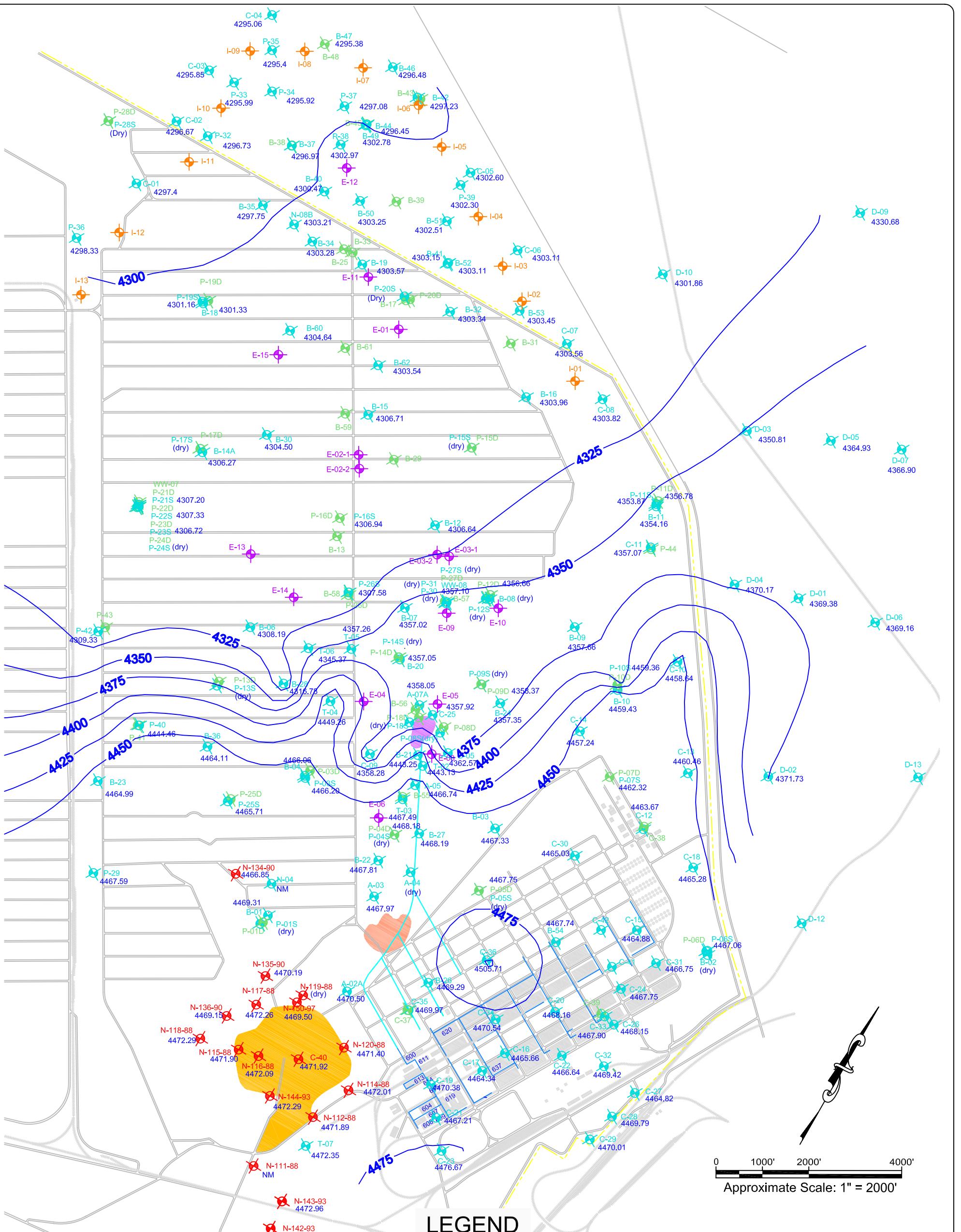
U.S. Army Corps of Engineers
Sacramento District

Date: 02/24/2005 Edited by: Verne Brown
Project Number

SWMU 2/58 AND 12/15
GROUNDWATER RESTORATION PROGRAM
WELLS AND PIEZOMETERS - FALL 2004
TOOELE ARMY DEPOT
TOOELE, UTAH

FIGURE

3-1



DEPOT PROPERTY LINE

NM = NOT MEASURED OR NO MEASUREMENT

NOTE: BASE UPON SEPTEMBER 2004 MEASUREMENTS (SEE TABLE 1-2)

DATA EXPORTED FROM TEAD'S DATABASE ON MARCH 2005

SHALLOW WELL GROUNDWATER ELEVATIONS USED FOR CONTOURING

4475

SHALLOW MONITORING WELL LOCATION FOR SWMU 12/15

SHALLOW MONITORING WELL LOCATION FOR SWMU 2/58

DEEP MONITORING WELL LOCATION FOR SWMU 2/58

EXTRACTION WELLS

INJECTION WELLS

GROUNDWATER ELEVATION CONTOUR

HATCHED CONTOUR INDICATES A DEPRESSION

SHALLOW GROUNDWATER ELEVATIONS WERE USED FOR CONTOURING

SLC4d281(3-2).dwg



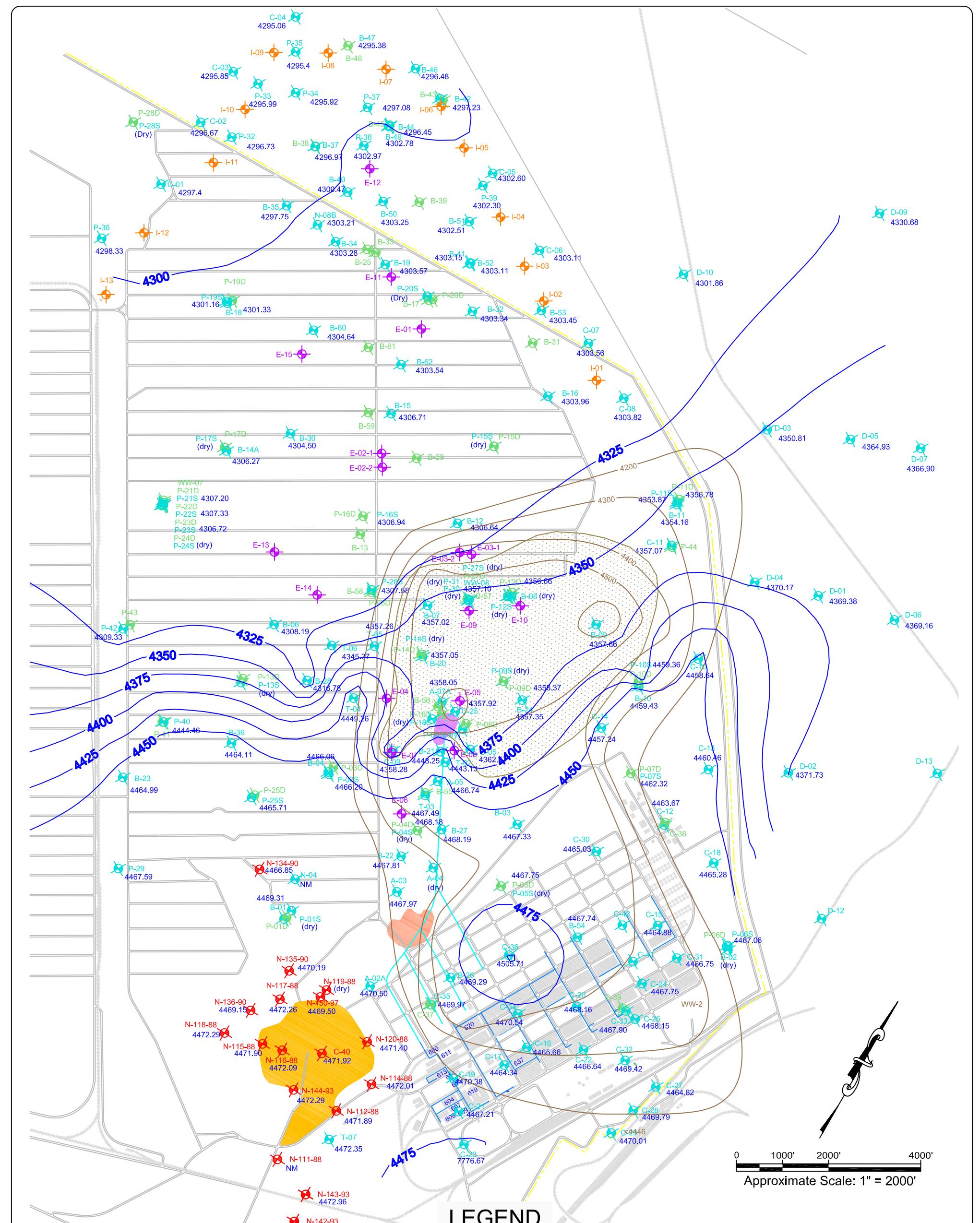
U.S. ARMY CORP OF ENGINEERS
SACRAMENTO DISTRICT

Date: 03/09/2005 Edited by Verne Brown
Project Number

SWMU 2/58 AND 12/15
GROUNDWATER ELEVATION CONTOUR
MAP FOR SHALLOW WELLS - FALL 2004
TOOELE ARMY DEPOT, TOOELE, UTAH

FIGURE

3-2



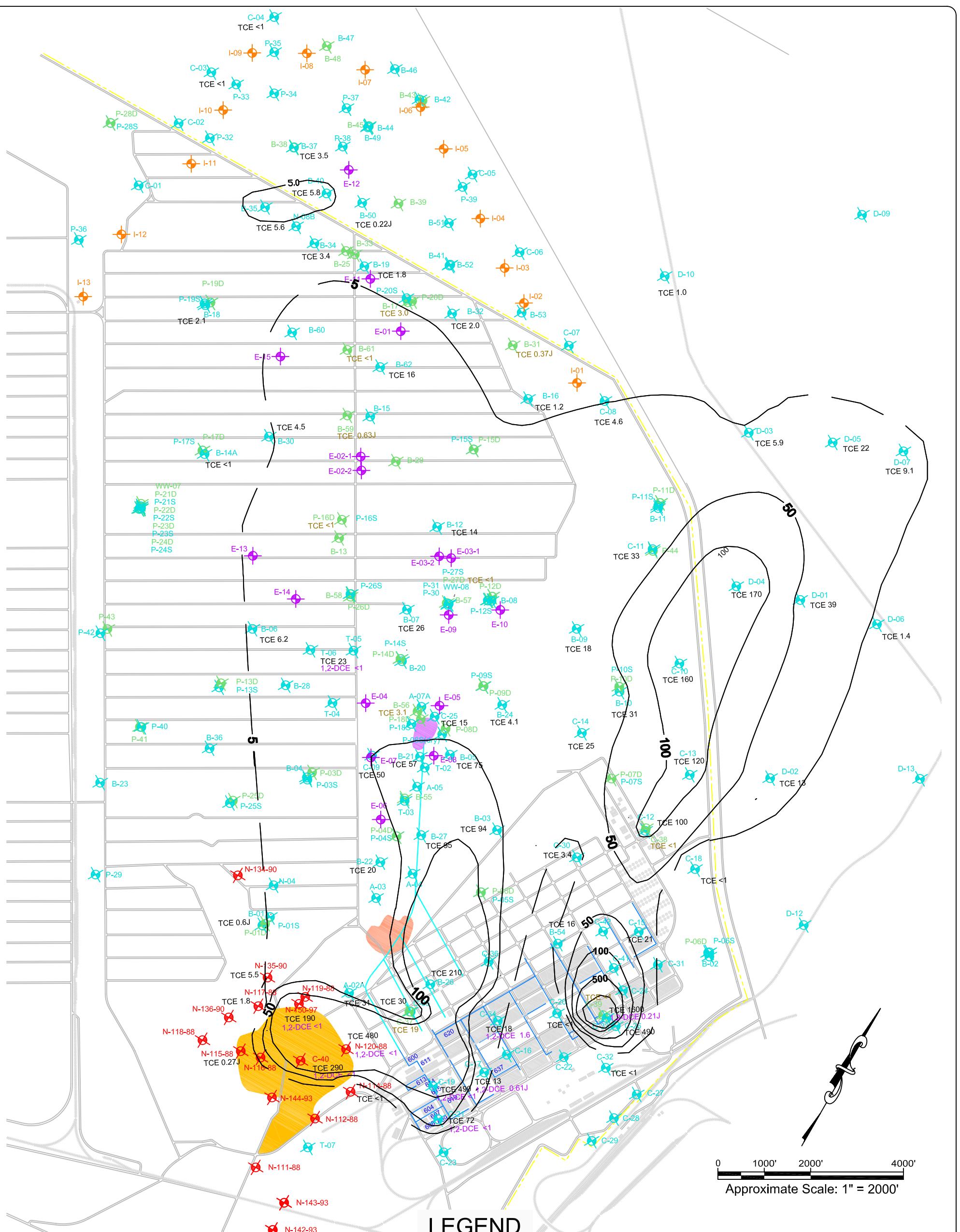
U.S. ARMY CORP OF ENGINEERS
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Date: 03/09/2005 Edited by Verne Brown
Project Number

SWMU 2/58
BEDROCK ELEVATION CONTOUR MAP WITH
GROUNDWATER ELEVATION CONTOURS - FALL 2004
TOOELE ARMY DEPOT
TOOELE, UTAH

FIGURE

3-3



LEGEND

— DEPOT PROPERTY BOUNDARY LINE

< NOT DETECTED ABOVE METHOD DETECTION LIMIT (MDL)

NOTE: DATA EXPORTED FROM TEAD'S DATABASE ON MARCH 2005

TCE = TRICHLOROETHENE

1,2-DCE = 1,2-DICHLOROETHENE (TOTAL)

— 5 — SHALLOW TCE ISOCONCENTRATION CONTOURS ARE IN MICROGRAMS PER LITER (ug/L) (DASHED WHERE INFERRED)



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SHALLOW MONITORING WELL LOCATION FOR SWMU 12/15
SHALLOW MONITORING WELL LOCATION FOR SWMU 2/58

DEEP MONITORING WELL LOCATION FOR SWMU 2/58

EXTRACTION WELLS

INJECTION WELLS

SHALLOW TCE CONCENTRATIONS

TCE 7.6 1,2-DCE CONCENTRATIONS

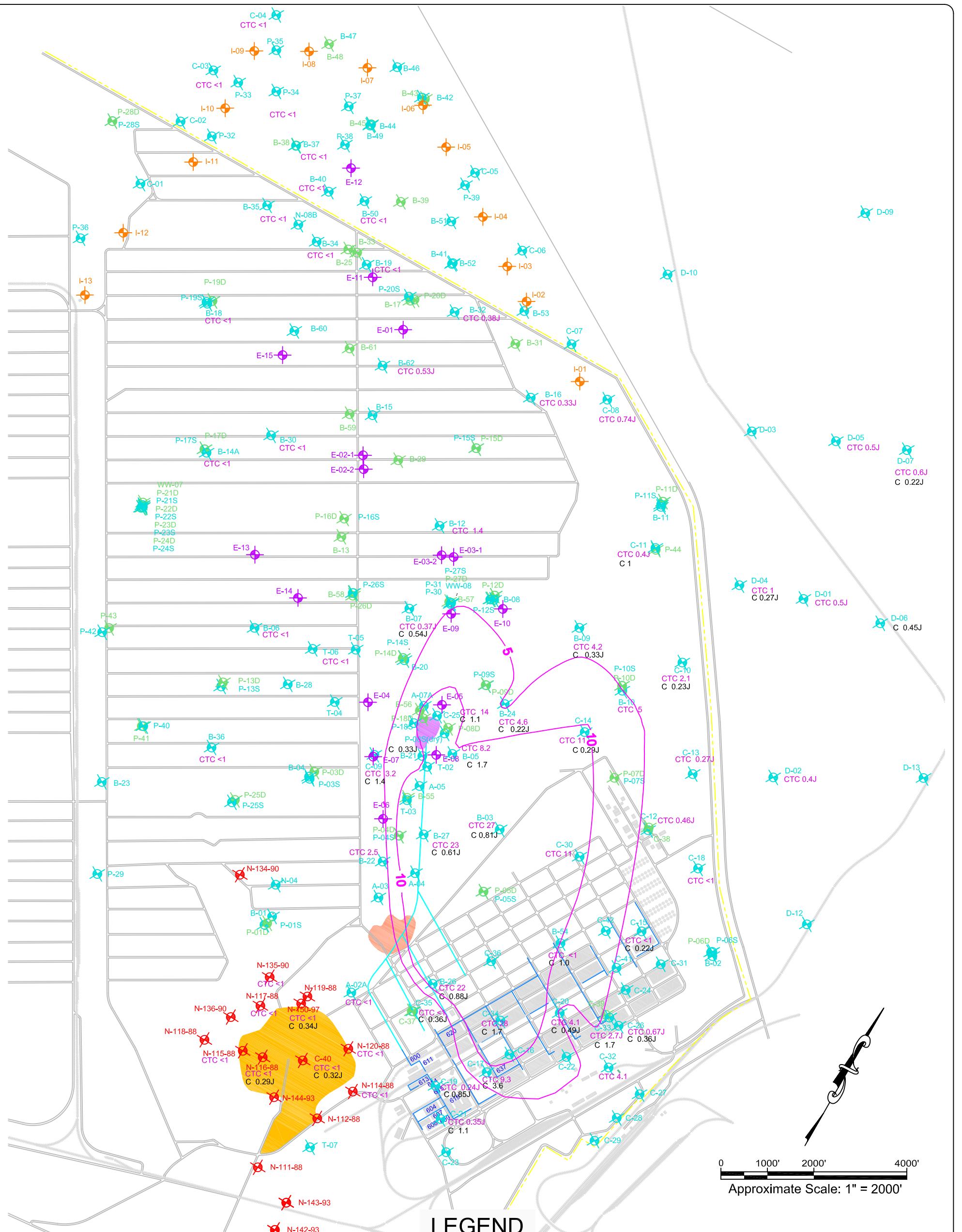
TCE 7.6 1,2-DCE CONCENTRATIONS

SWMU 2/58 AND 12/15 - FALL 2004
TRICHLOROETHENE AND DAUGHTER PRODUCT
CONCENTRATIONS IN SHALLOW GROUNDWATER
TOOELE ARMY DEPOT
TOOELE, UTAH

SLC4D281(FIG3.4).dwg

FIGURE

3-4



DEPOT PROPERTY BOUNDARY LINE
CTC 2.6 CARBON TETRACHLORIDE (CTC) CONCENTRATIONS in ug/L
C 0.9 CHLOROFORM (C) CONCENTRATIONS in ug/L
< NOT DETECTED ABOVE METHOD DETECTION LIMIT (MDL)
NOTE: DATA EXPORTED FROM TEAD'S DATABASE ON MARCH 2005

SHALLOW MONITORING WELL LOCATION FOR SWMU 12/15
SHALLOW MONITORING WELL LOCATION FOR SWMU 2/58
DEEP MONITORING WELL LOCATION FOR SWMU 2/58
EXTRACTION WELLS
INJECTION WELLS
CARBON TETRACHLORIDE (CTC) ISOCONCENTRATION CONTOURS
ARE IN MICROGRAMS PER LITER (ug/L)

SLC4D281(FIG3.5).dwg



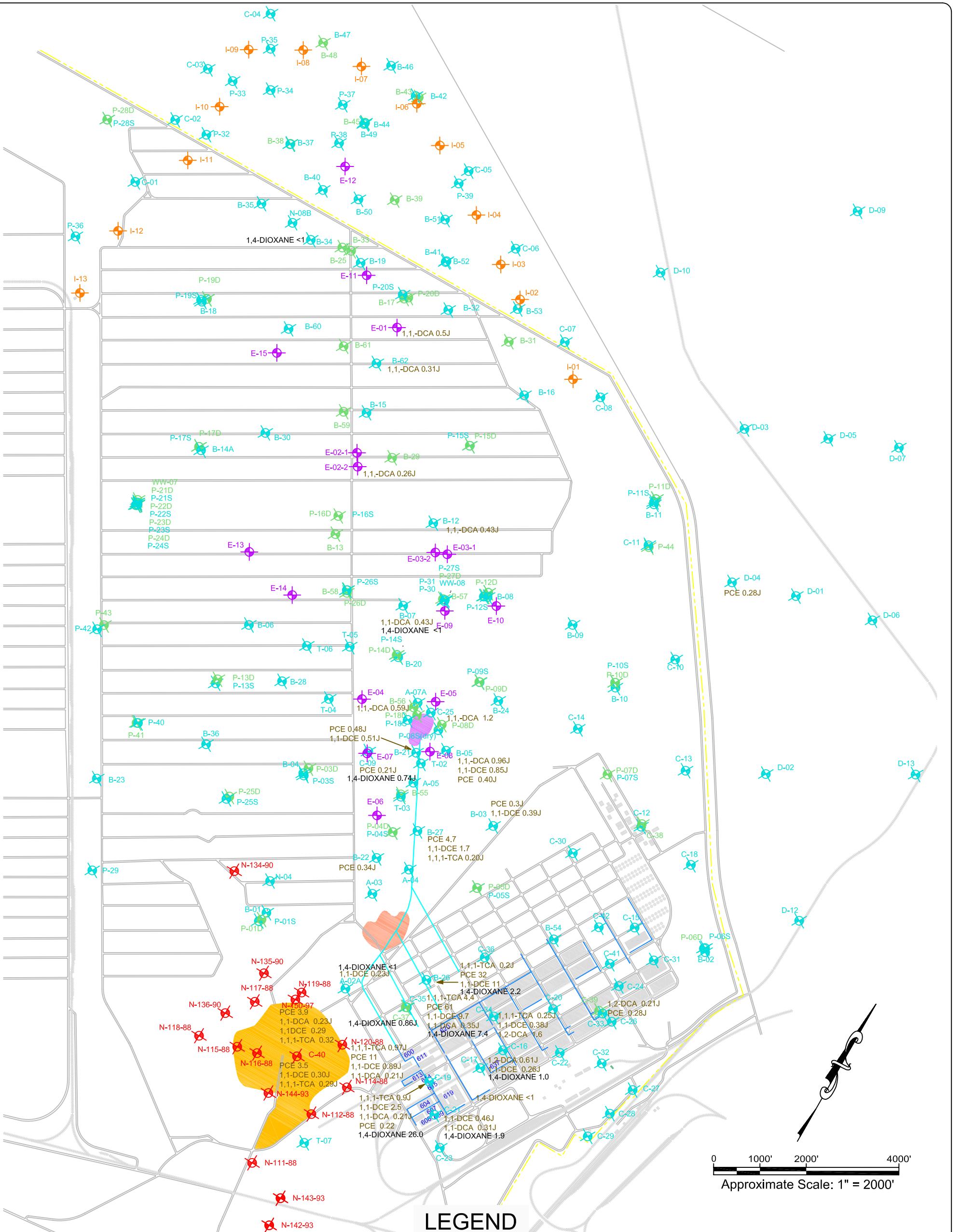
U.S. ARMY CORP OF ENGINEERS
SACRAMENTO DISTRICT

Date: 03/08/2005 Edited by Verne Brown
Project Number

SWMU 2/58 AND 12/15 - FALL 2004
CARBON TETRACHLORIDE, CHLOROFORM, & METHYLENE
CHLORIDE CONCENTRATIONS IN SHALLOW GROUNDWATER
TOOELE ARMY DEPOT
TOOELE, UTAH

FIGURE

3-5



PCE = TETRACHLOROETHENE
 1,1,1-TCA = 1,1,1 - TRICHLOROETHANE
 1,1-DCE = 1,1 - DICHLOROETHENE
 1,1-DCA = 1,1 - DICHLOROETHANE
 1,2-DCA = 1,2 - DICHLOROETHANE
 1,4 - DIOXANE = 1,4 DIOXANE

NOTE: DATA EXPORTED FROM TEAD'S DATABASE ON MARCH 2005

COMPOUND CONCENTRATION IN MICROGRAMS PER LITER (ug/L) SHOWN NEXT TO WELL

SHALLOW MONITORING WELL LOCATION FOR SWMU 12/15
 SHALLOW MONITORING WELL LOCATION FOR SWMU 2/58
 DEEP MONITORING WELL LOCATION FOR SWMU 2/58
 EXTRACTION WELLS
 INJECTION WELLS

DEPOT PROPERTY BOUNDARY LINE

SLC4d281.dwg

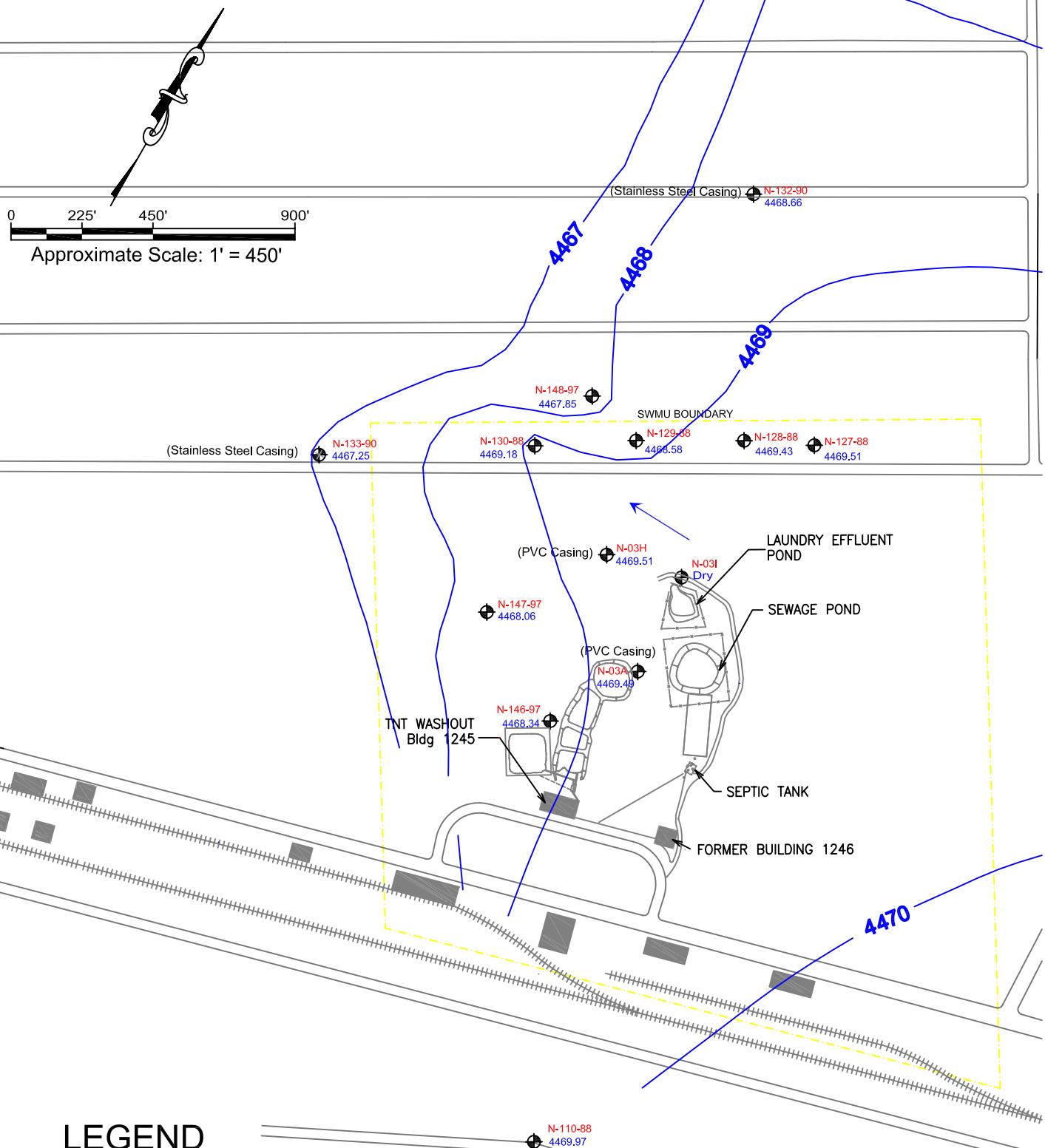


U.S. ARMY CORP OF ENGINEERS
 SACRAMENTO DISTRICT
 Date: 03/09/2005 Edited by Verne Brown
 Project Number

SWMU 2/58
 ADDITIONAL VOCs AND 1,4 - DIOXANE
 DETECTED IN SHALLOW GROUNDWATER - FALL 2004
 TOOKELE ARMY DEPOT
 TOOKELE, UTAH

FIGURE

3-6



LEGEND

- 4470 — GROUNDWATER ELEVATION CONTOUR
- 4470.04 MONITORING WELL LOCATION WITH GROUNDWATER ELEVATION (MSL)
(DASHED WHERE INFERRED)
- ↗ DIRECTION OF GROUNDWATER GRADIENT

NOTE: DATA EXPORTED FROM TEAD'S DATABASE ON MARCH 2005

SLC4d282.dwg



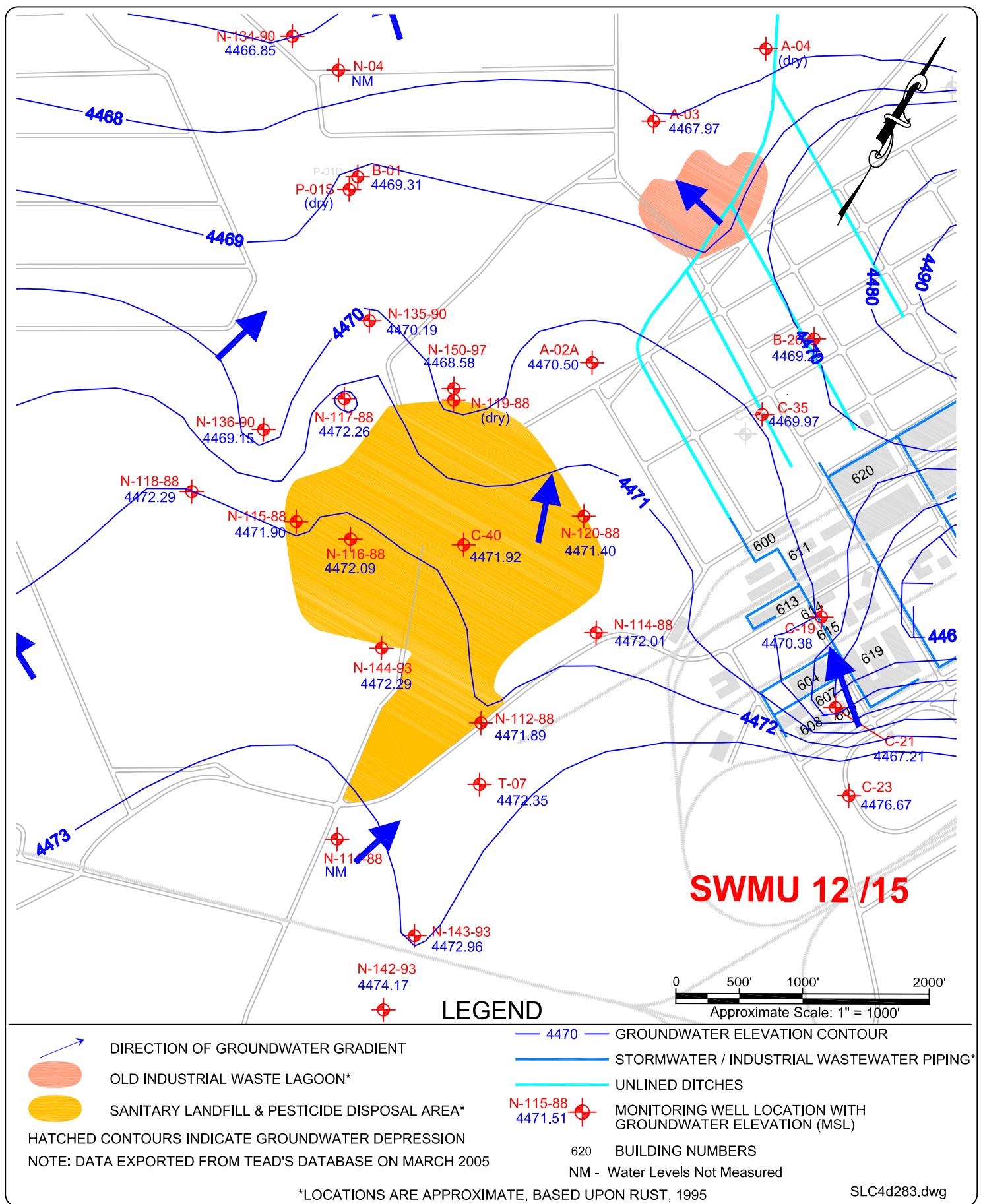
U.S. Army Corps of Engineers
Sacramento District

Date: 03/24/05 Edited by Verne Brown
Project Number

SWMU 10/11
GROUNDWATER ELEVATION CONTOUR MAP
FALL 2004
TOOELE ARMY DEPOT
TOOELE, UTAH

FIGURE

4-1



U.S. Army Corps of Engineers
Sacramento District

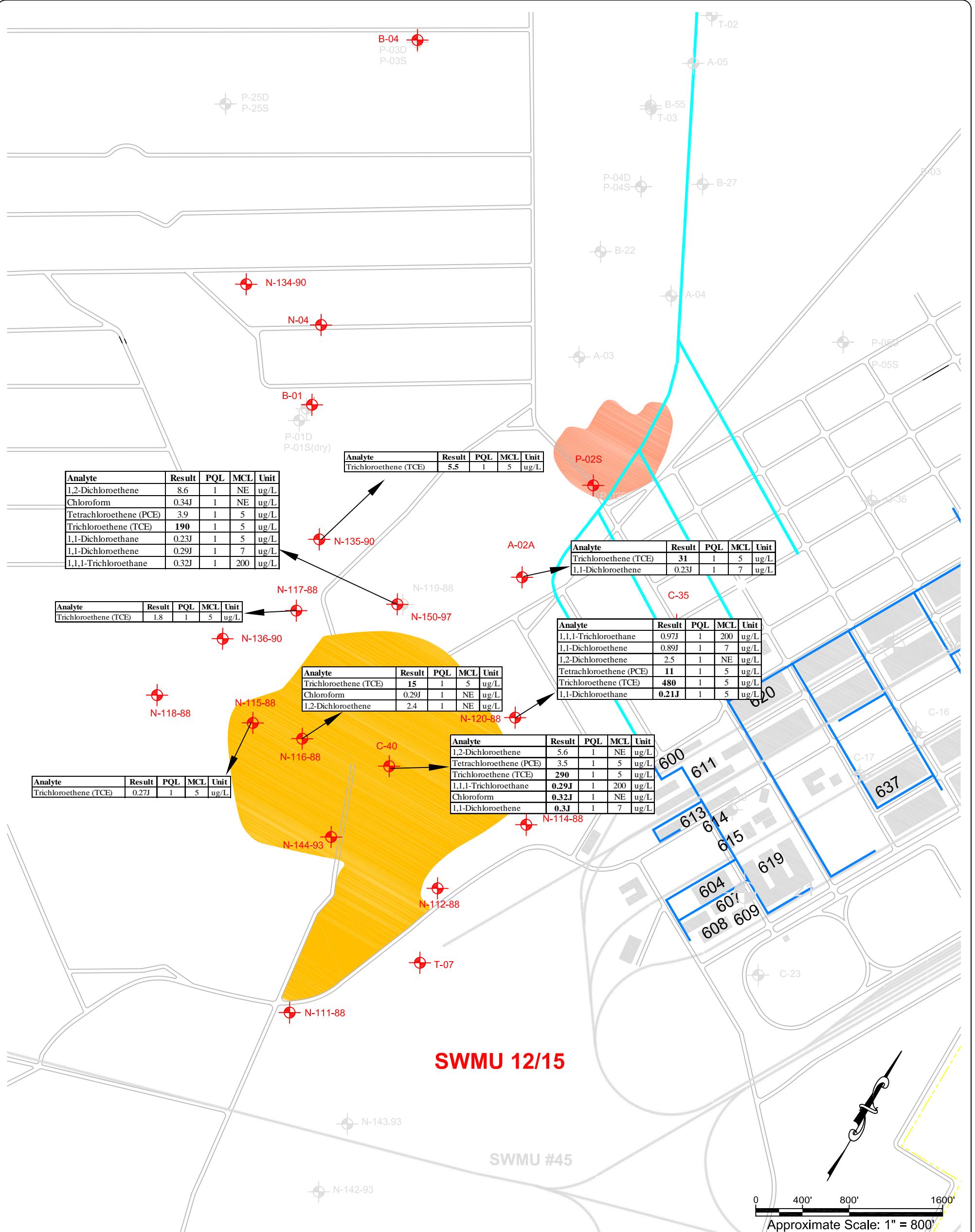
Date: 03/08/05 Edited by Verne Brown
Project Number

SWMU 12/15
GROUNDWATER ELEVATION CONTOUR MAP
FALL 2004
TOOELE ARMY DEPOT
TOOELE, UTAH

SLC4d283.dwg

FIGURE

5-1



LEGEND

- OLD INDUSTRIAL WASTE LAGOON*
- SANITARY LANDFILL & PESTICIDE DISPOSAL AREA*

*LOCATIONS ARE APPROXIMATE, BASED ON RUST, 1996

NE - NOT ESTABLISHED

BOLDED CONCENTRATIONS EXCEED THE STATE OF UTAH MAXIMUM CONTAMINANT LEVEL (MCL)

PQL - PRACTICAL QUANTITATION LIMIT

NOTE: DATA EXPORTED FROM TEAD'S DATABASE IN MARCH 20005

- N-115-88 • MONITORING WELL LOCATION
- 620 STORMWATER/INDUSTRIAL WASTEWATER PIPING*
- ND UNLINED DITCHES*
- mg/L BUILDING NUMBERS
- ug/L NOT DETECTED ABOVE METHOD DETECTION LIMIT (MDL)
- ug/L MILLIGRAMS PER LITER
- ug/L MICROGRAMS PER LITER

SLC4d291.dwg



U.S. Army Corps of Engineers
Sacramento District
Date: 03/09/2005 Edited by Verne Brown
Project Number

SWMU 12/15
CHEMICALS DETECTED IN GROUNDWATER
FALL 2004
TOOELE ARMY DEPOT
TOOELE, UTAH

FIGURE

5-2

Figure 3-7: Well B-16 Combined Shewart-CUSUM Control Chart

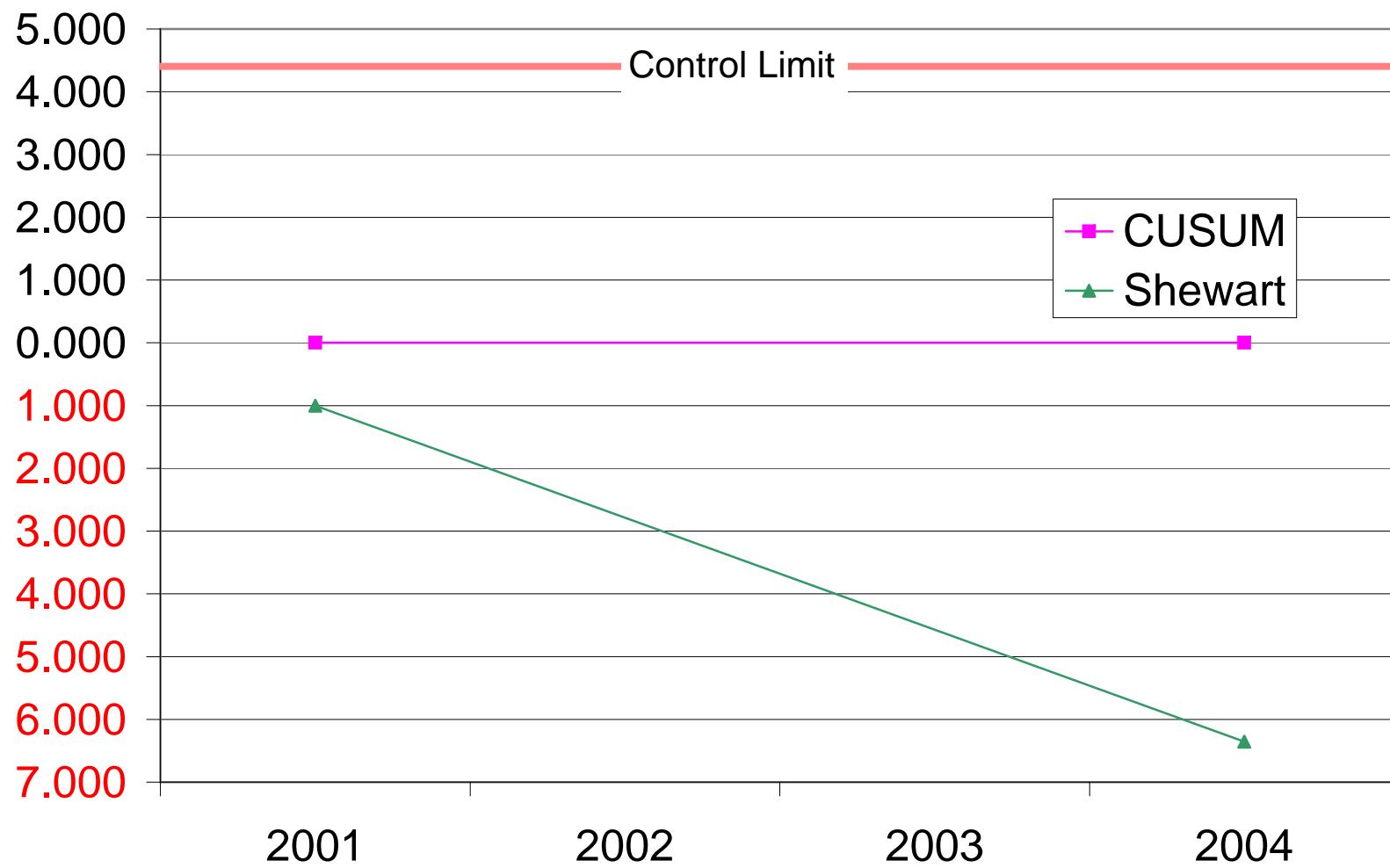


Figure 3-8: Well B-16 TCE Concentrations

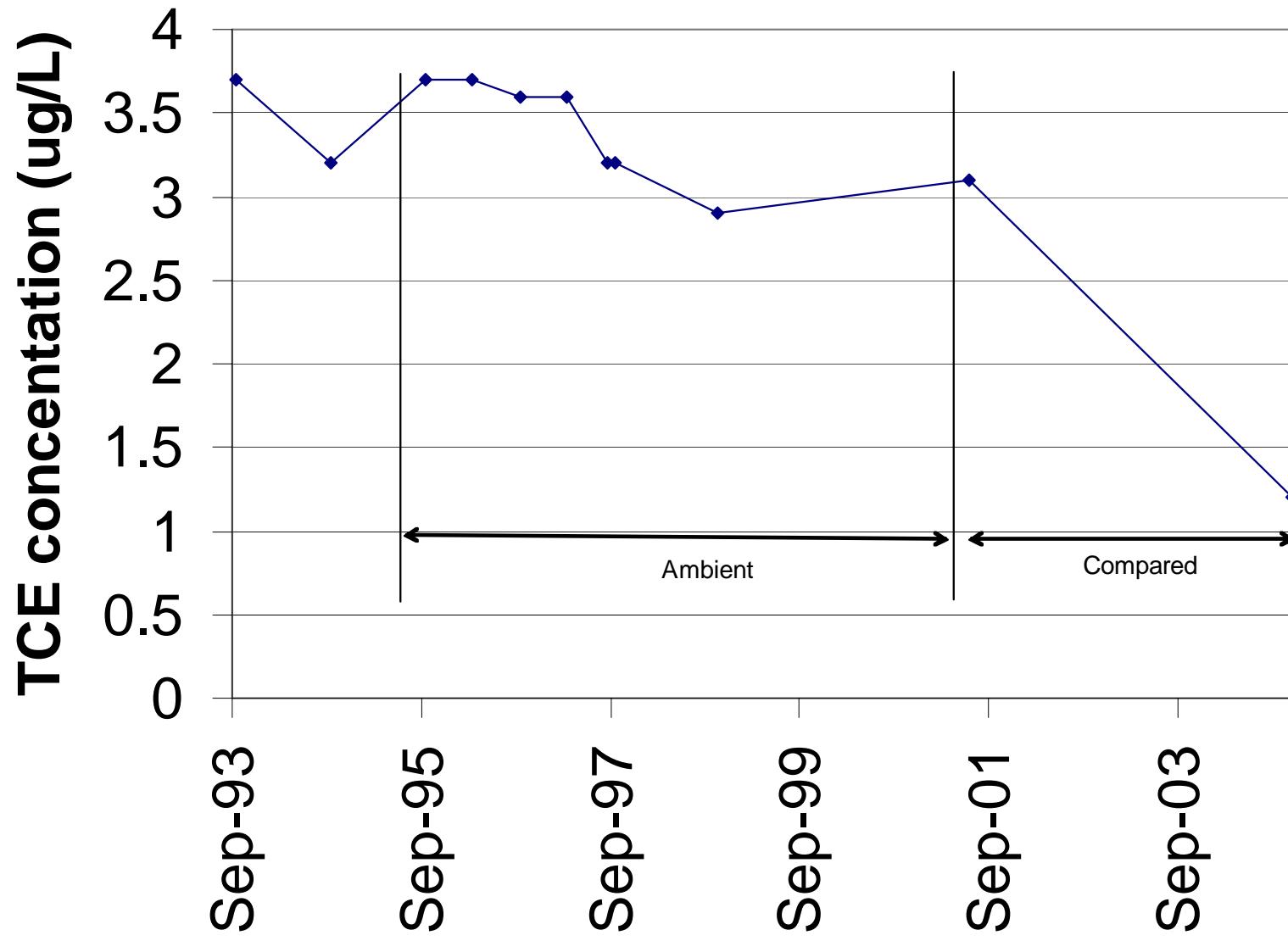


Figure 3-9: Well B-34 Combined Shewart-CUSUM Control Chart

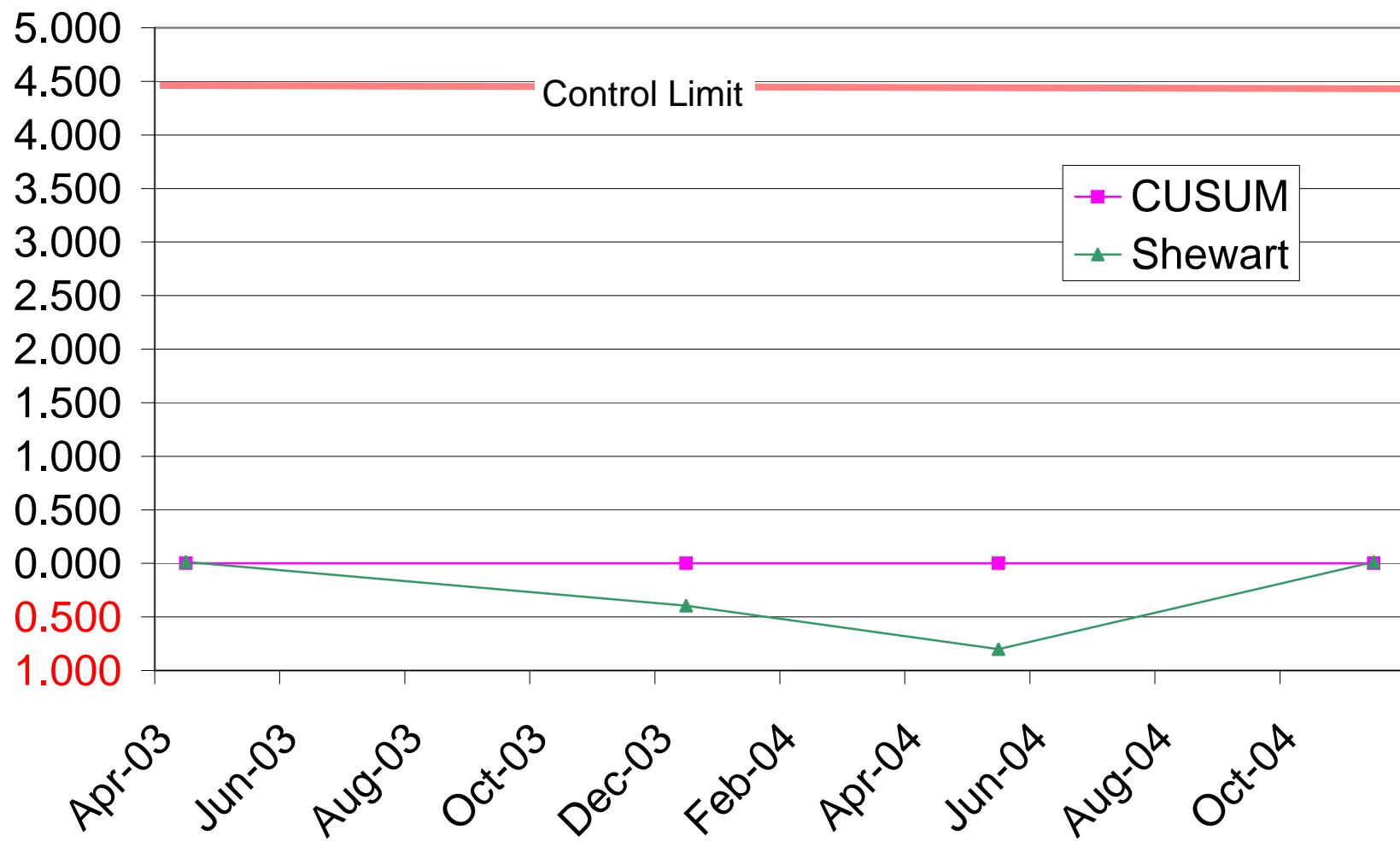


Figure 3-10: Well B-34 TCE Concentrations

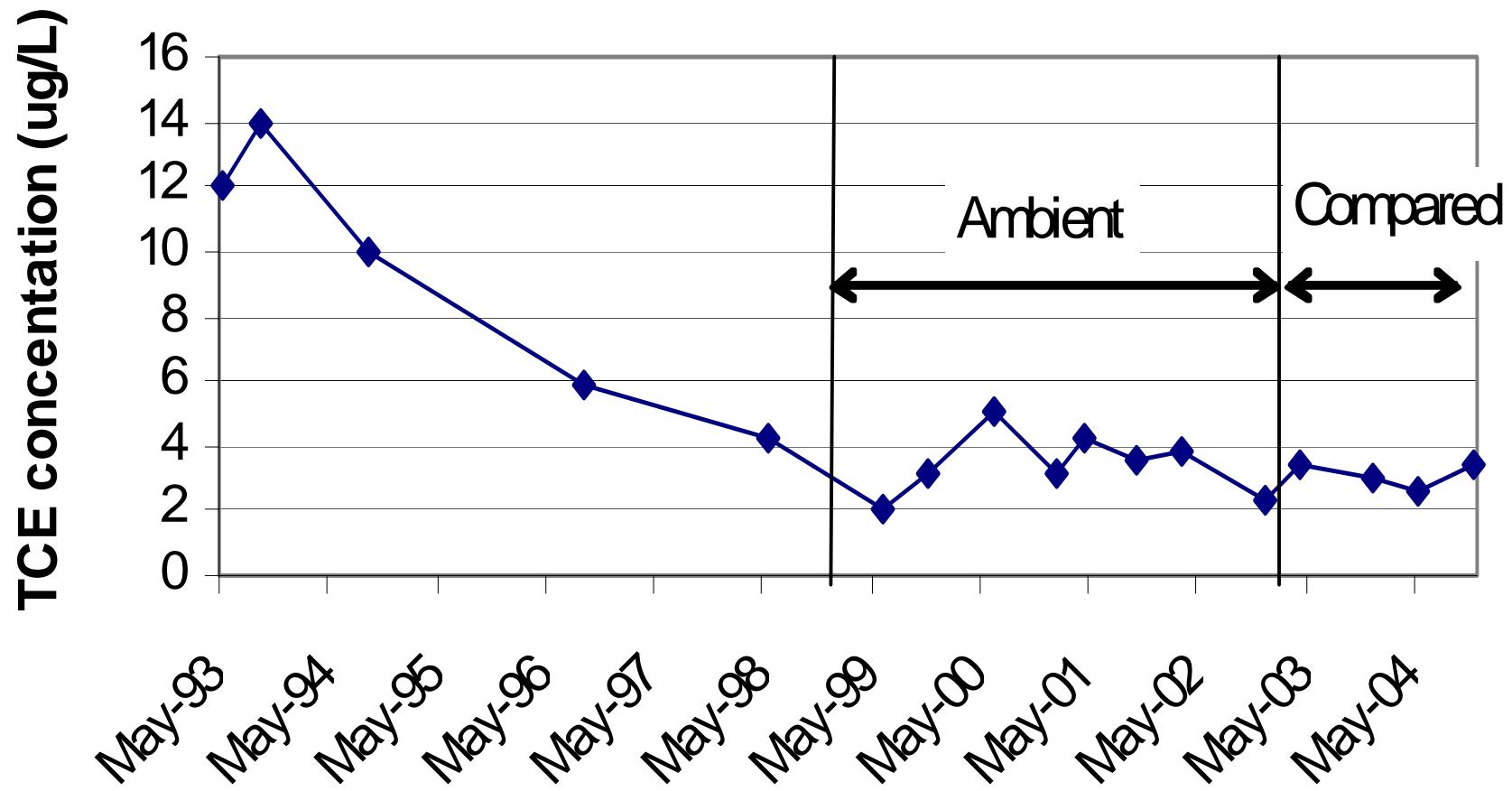


Figure 3-11: Well B-35 Combined Shewart-CUSUM Control Chart

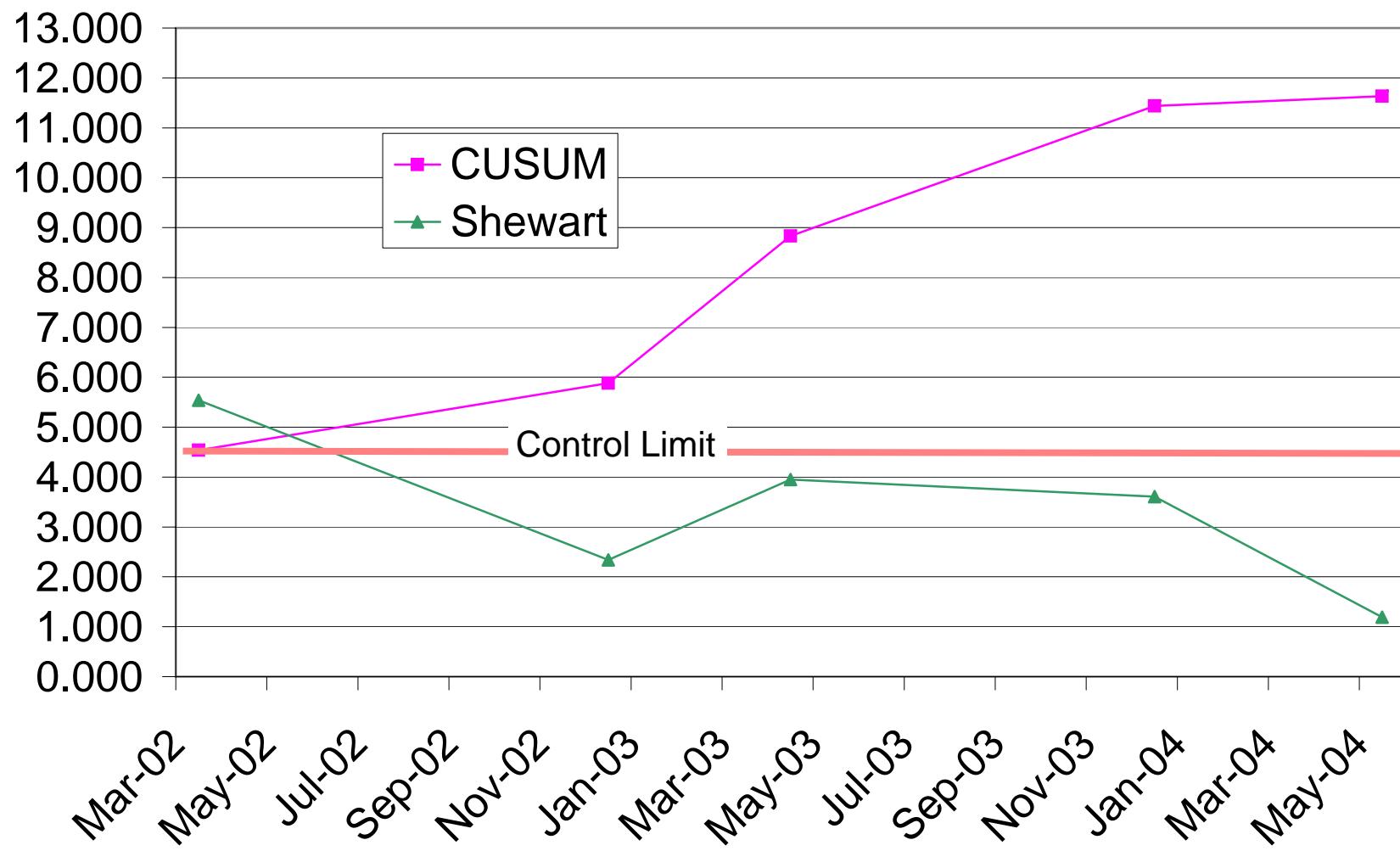


Figure 3-12: Well B-35 TCE Concentrations

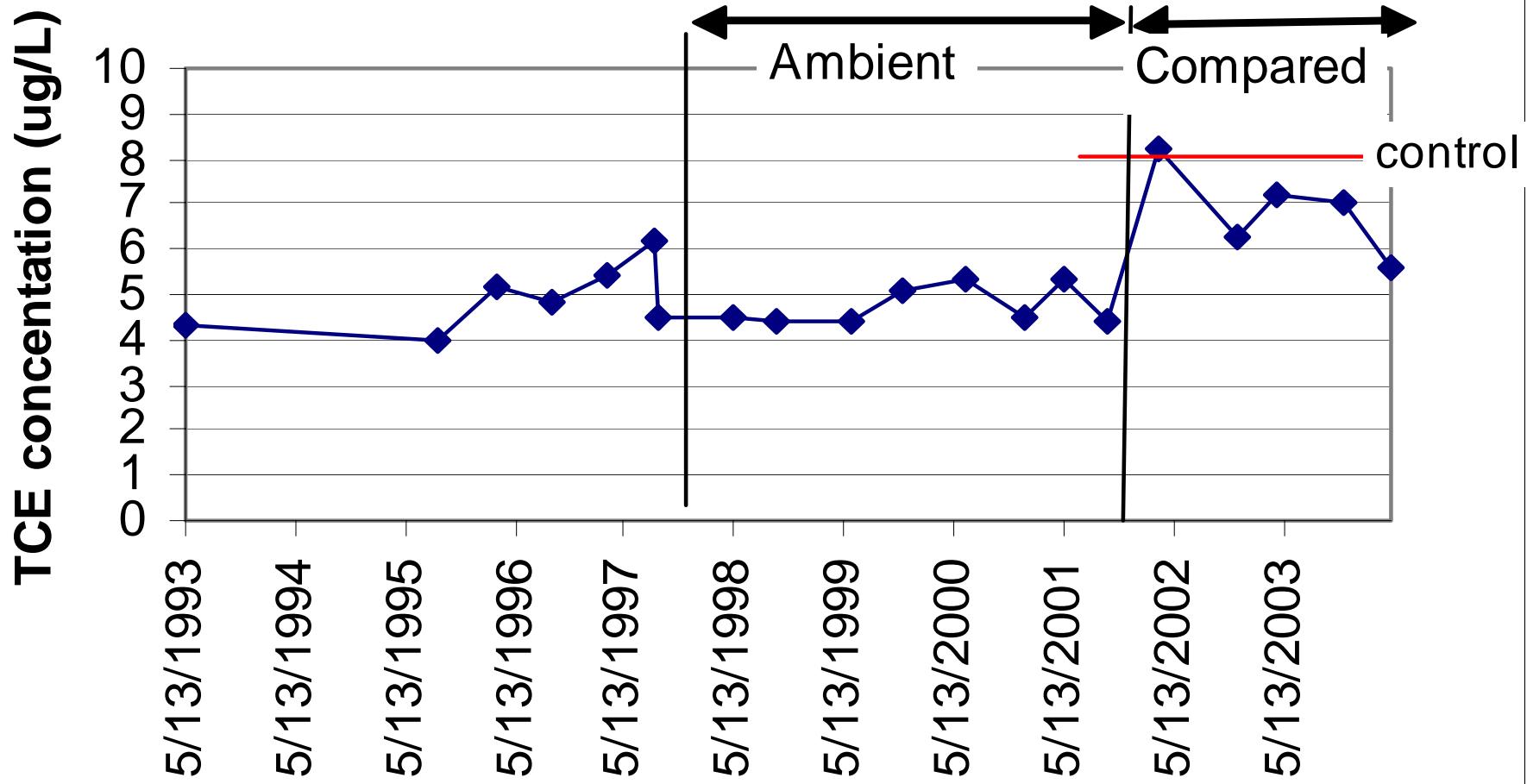


Figure 3-13: Well B-37 Combined Shewart-CUSUM Control Chart

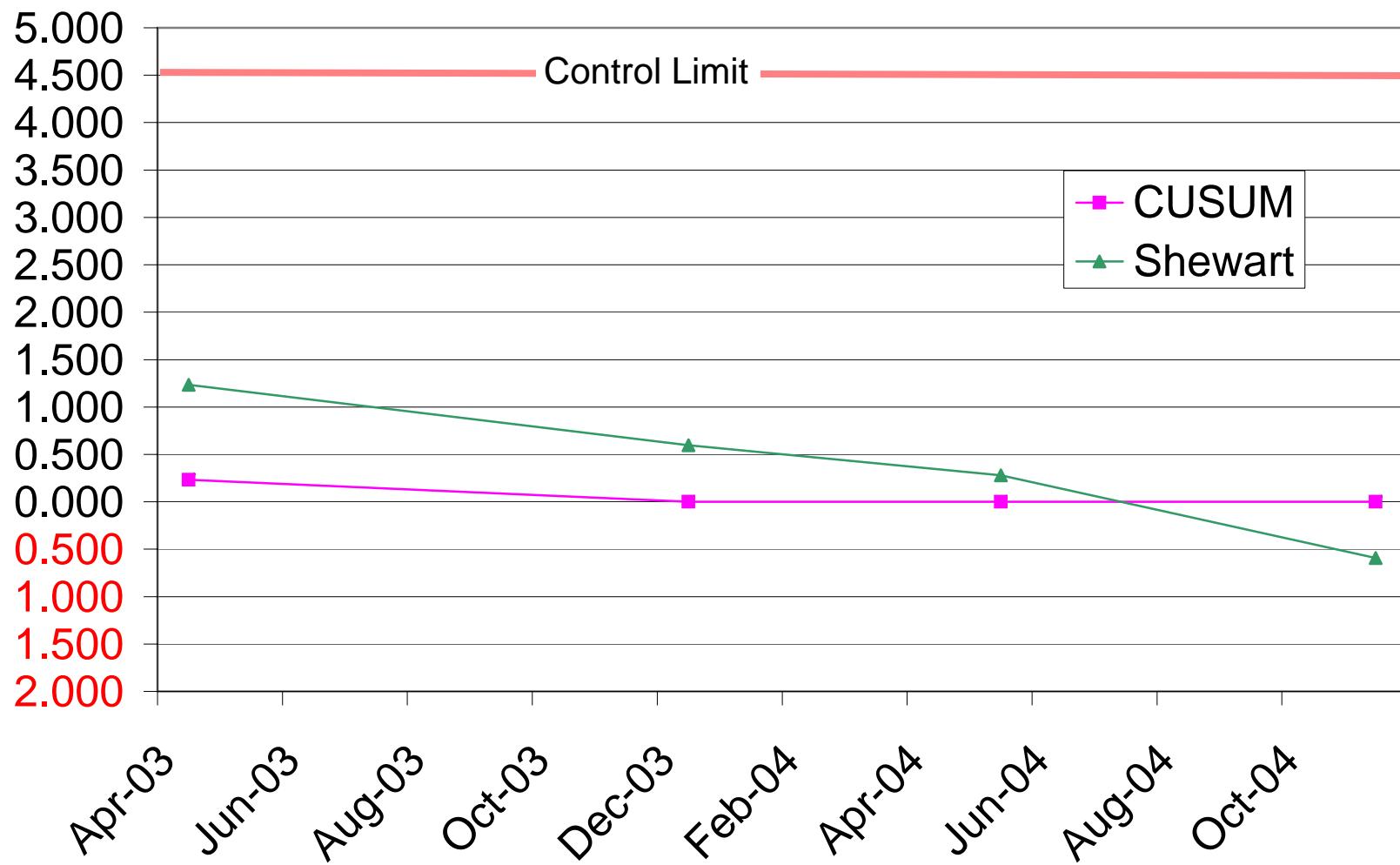


Figure 3-14: Well B-37 TCE Concentrations

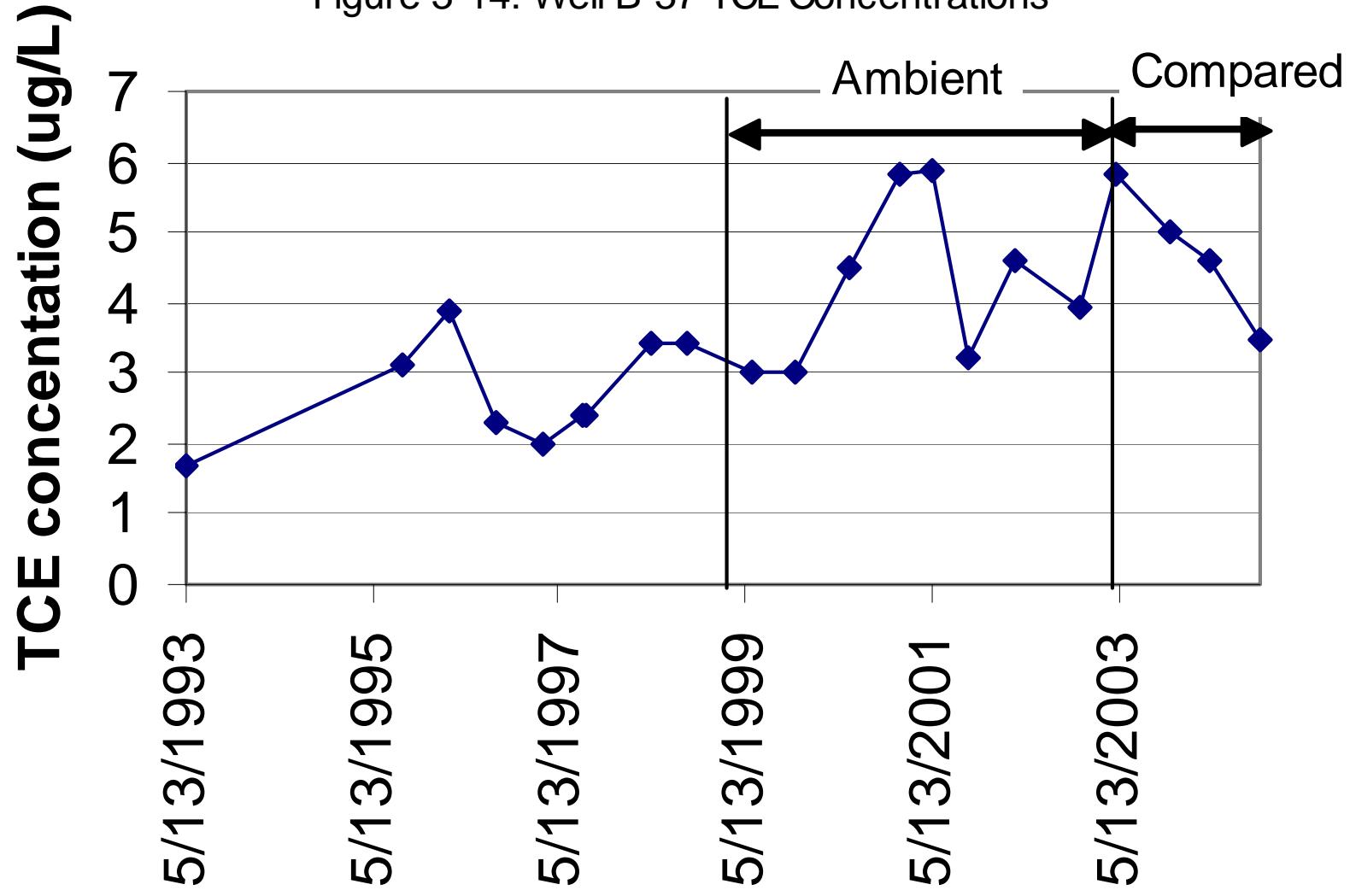


Figure 3-15: Well B-40 Combined Shewart-CUSUM Control Chart

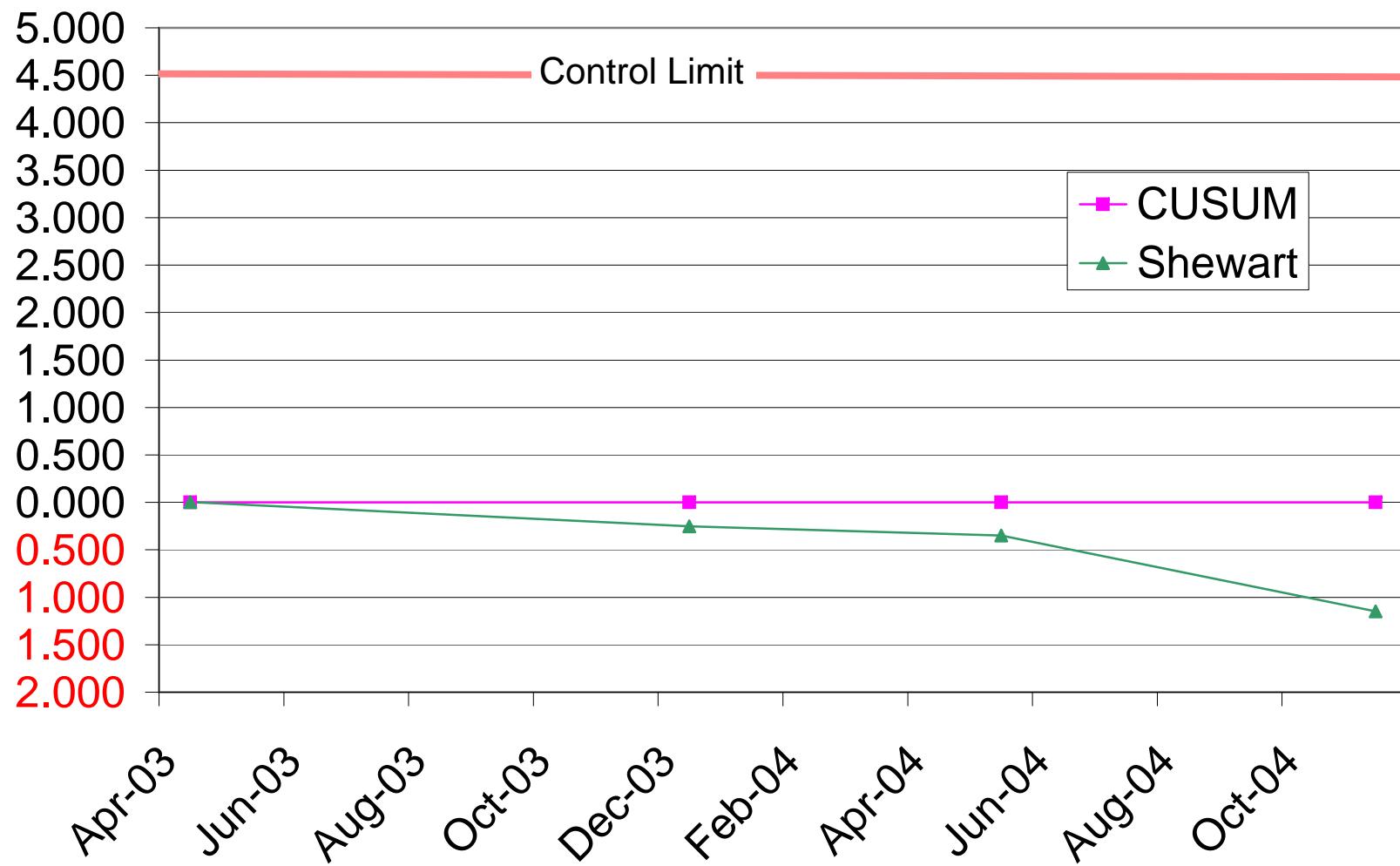


Figure 3-16: Well B-40 TCE Concentrations

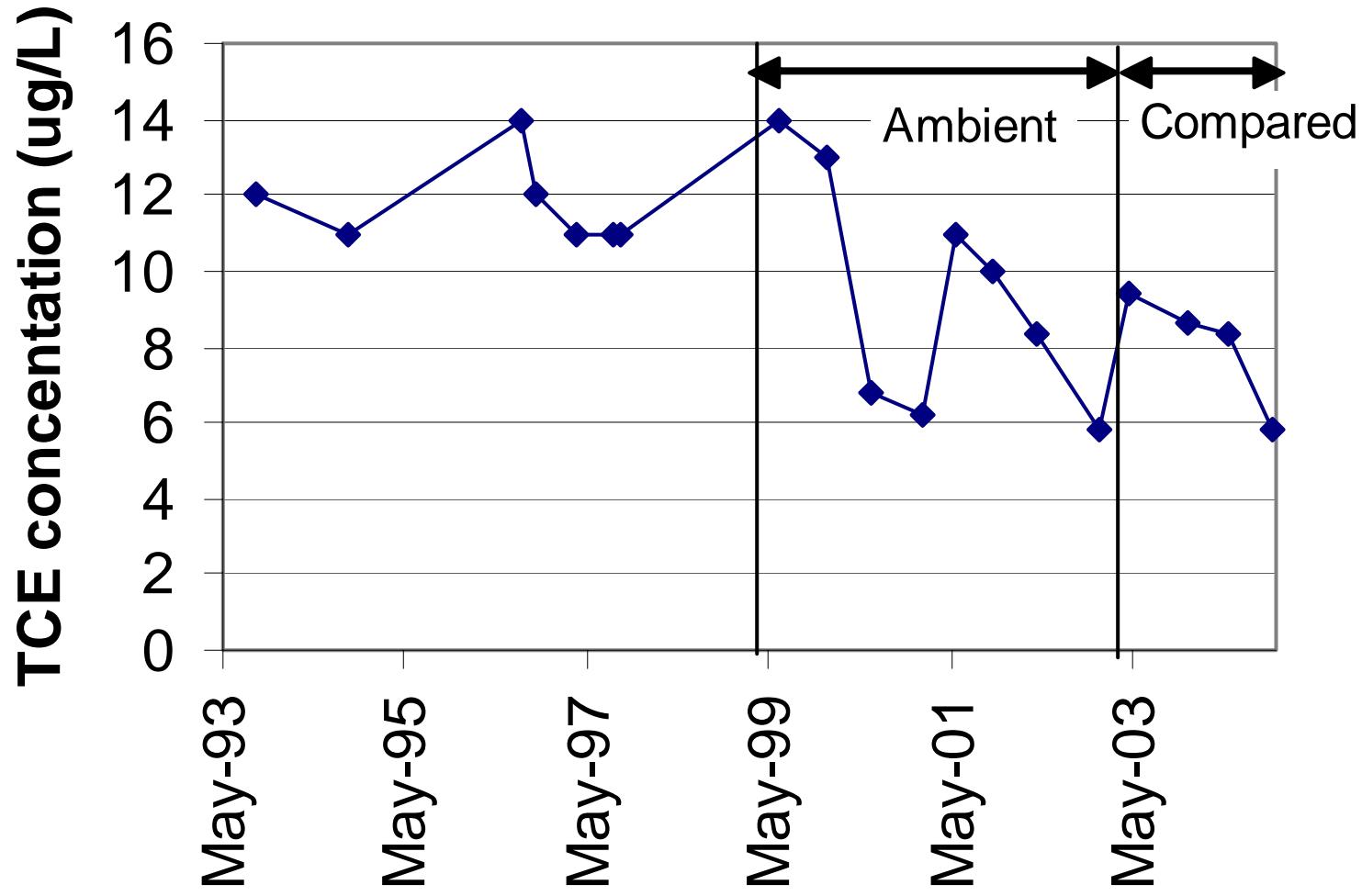


Figure 3-17: Well B-62 Combined Shewart-CUSUM Control Chart

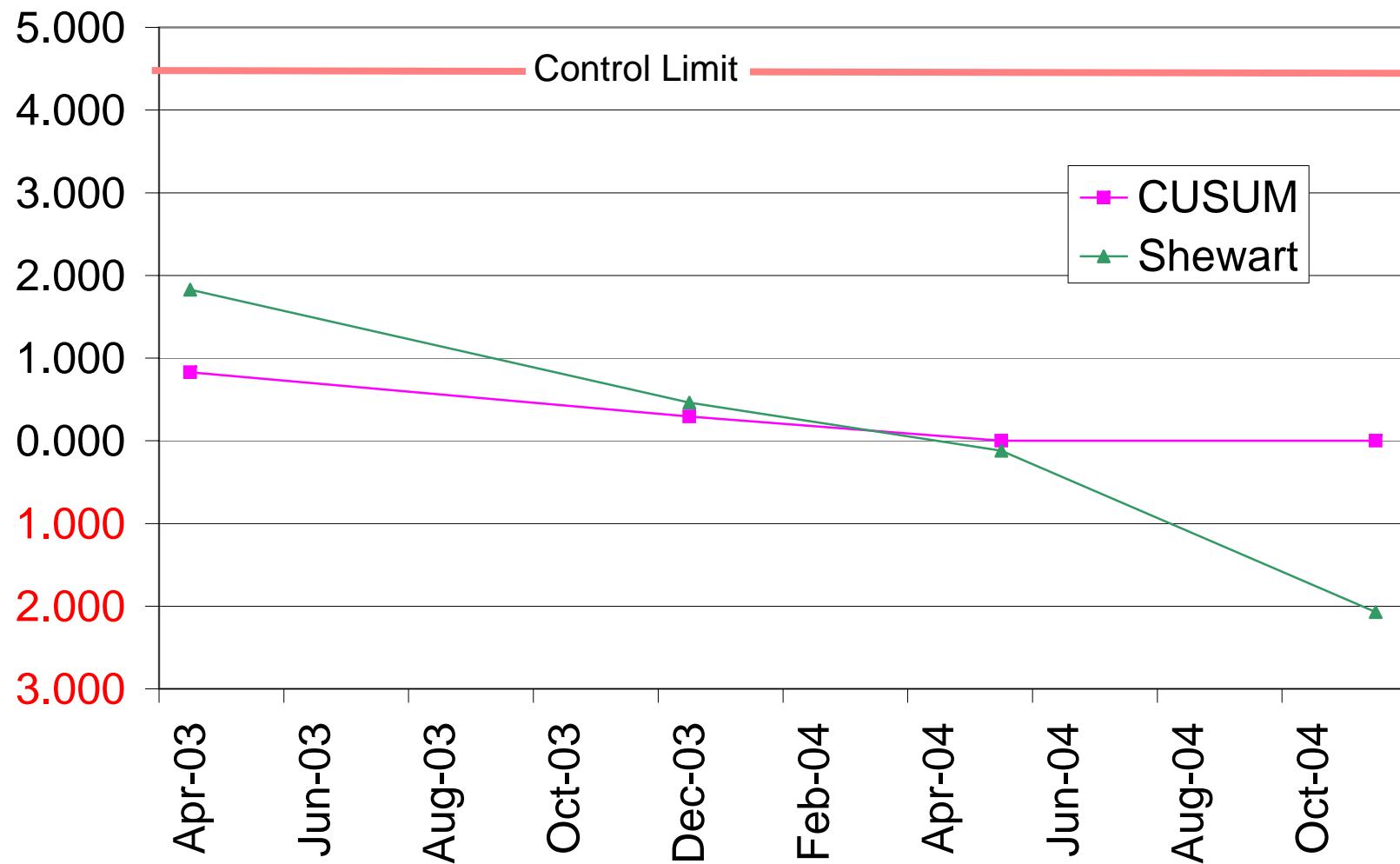
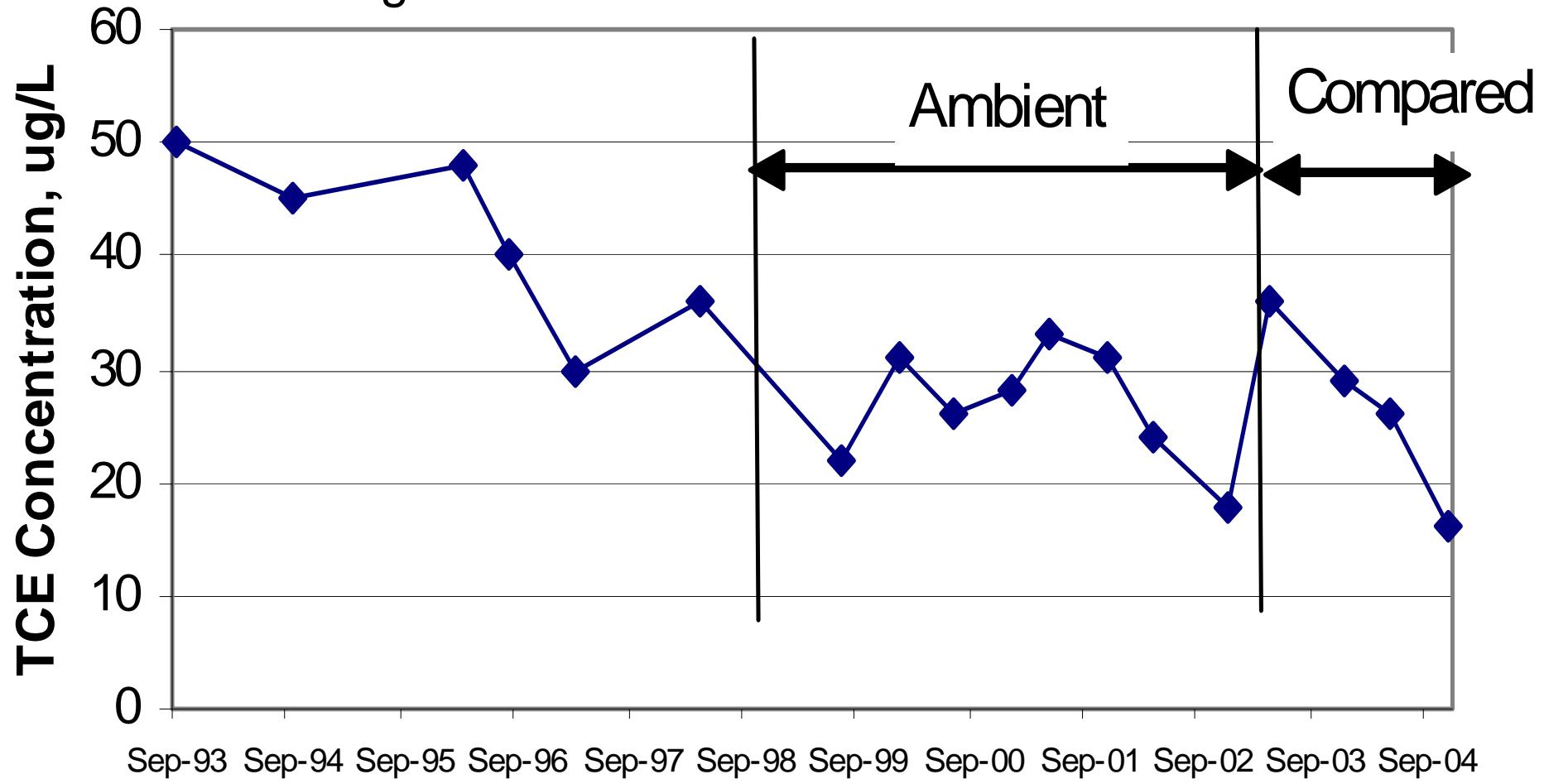


Figure 3-18: Well B-62 TCE Concentrations



APPENDIX A

Comprehensive List of Wells and Analytes - Fall 2004

Appendix A
Sampling Results - Fall 2004
Tooele Army Depot

WELL ID	FIELD SAMPLE ID	SAMPLING DATE	ANALYTE	RESULT	PQL	QUALIFER	METHOD	UNITS
A-02A	TEAD-11-04-A02A-DF-290	11/15/2004 13:15	1,1 - Dichloroethene	0.23	1	J / TR	SW8260B	µg/L
A-02A	TEAD-11-04-A02A-DF-290	11/15/2004 13:15	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
A-02A	TEAD-11-04-A02A-DF-290	11/15/2004 13:15	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
A-02A	TEAD-11-04-A02A-DF-290	11/15/2004 13:15	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
A-02A	TEAD-11-04-A02A-DF-290	11/15/2004 13:15	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
A-02A	TEAD-11-04-A02A-DF-290	11/15/2004 13:15	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
A-02A	TEAD-11-04-A02A-DF-290	11/15/2004 13:15	1,2 Dicholorethane	ND	1	U	SW8260B	µg/L
A-02A	TEAD-11-04-A-02A-KA	11/16/2004 9:40	1,4-Dioxane	ND	1	UJ	SW8270SIM	µg/L
A-02A	TEAD-11-04-A02A-DF-290	11/15/2004 13:15	Benzene	ND	1	U	SW8260B	µg/L
A-02A	TEAD-11-04-A02A-DF-290	11/15/2004 13:15	Carbon Tetrachloride	ND	1	U	SW8260B	µg/L
A-02A	TEAD-11-04-A02A-DF-290	11/15/2004 13:15	Chloroethane	ND	1	U	SW8260B	µg/L
A-02A	TEAD-11-04-A02A-DF-290	11/15/2004 13:15	Chloroform	ND	1	U	SW8260B	µg/L
A-02A	TEAD-11-04-A02A-DF-290	11/15/2004 13:15	Ethylbenzene	ND	1	U	SW8260B	µg/L
A-02A	TEAD-11-04-A02A-DF-290	11/15/2004 13:15	Methylene Chloride	ND	5	U	SW8260B	µg/L
A-02A	TEAD-11-04-A02A-DF-290	11/15/2004 13:15	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
A-02A	TEAD-11-04-A02A-DF-290	11/15/2004 13:15	Toluene	ND	1	U	SW8260B	µg/L
A-02A	TEAD-11-04-A02A-DF-290	11/15/2004 13:15	Trichloroethene (TCE)	31	1		SW8260B	µg/L
A-02A	TEAD-11-04-A02A-DF-290	11/15/2004 13:15	Vinyl Chloride	ND	2	U	SW8260B	µg/L
A-02A	TEAD-11-04-A02A-DF-290	11/15/2004 13:15	Xylenes	ND	1	U	SW8260B	µg/L
B-03	TEAD-11-04-B03-DF-273	11/22/2004 13:40	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
B-03	TEAD-11-04-B03-DF-273	11/22/2004 13:40	1,1 - Dichloroethene	0.39	1	J / TR	SW8260B	µg/L
B-03	TEAD-11-04-B03-DF-273	11/22/2004 13:40	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
B-03	TEAD-11-04-B03-DF-273	11/22/2004 13:40	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
B-03	TEAD-11-04-B03-DF-273	11/22/2004 13:40	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
B-03	TEAD-11-04-B03-DF-273	11/22/2004 13:40	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
B-03	TEAD-11-04-B03-DF-273	11/22/2004 13:40	1,2 Dicholorethane	ND	1	U	SW8260B	µg/L
B-03	TEAD-11-04-B03-DF-273	11/22/2004 13:40	Benzene	ND	1	U	SW8260B	µg/L
B-03	TEAD-11-04-B03-DF-273	11/22/2004 13:40	Carbon Tetrachloride	27	10		SW8260B	µg/L
B-03	TEAD-11-04-B03-DF-273	11/22/2004 13:40	Chloroethane	ND	1	U	SW8260B	µg/L
B-03	TEAD-11-04-B03-DF-273	11/22/2004 13:40	Chloroform	0.81	1	J / TR	SW8260B	µg/L
B-03	TEAD-11-04-B03-DF-273	11/22/2004 13:40	Ethylbenzene	ND	1	U	SW8260B	µg/L
B-03	TEAD-11-04-B03-DF-273	11/22/2004 13:40	Methylene Chloride	ND	5	U	SW8260B	µg/L
B-03	TEAD-11-04-B03-DF-273	11/22/2004 13:40	Tetrachloroethane (PCE)	0.3	1	J / TR	SW8260B	µg/L
B-03	TEAD-11-04-B03-DF-273	11/22/2004 13:40	Toluene	ND	1	U	SW8260B	µg/L

Appendix A
Sampling Results - Fall 2004
Tooele Army Depot

WELL ID	FIELD SAMPLE ID	SAMPLING DATE	ANALYTE	RESULT	PQL	QUALIFER	METHOD	UNITS
B-03	TEAD-11-04-B03-DF-273	11/22/2004 13:40	Trichloroethene (TCE)	94	10		SW8260B	µg/L
B-03	TEAD-11-04-B03-DF-273	11/22/2004 13:40	Vinyl Chloride	ND	2	U	SW8260B	µg/L
B-03	TEAD-11-04-B03-DF-273	11/22/2004 13:40	Xylenes	ND	1	U	SW8260B	µg/L
B-05	TEAD-11-04-B05-DF-437	11/22/2004 13:05	1,1 - Dichloroethene	0.85	1	J / TR	SW8260B	µg/L
B-05	TEAD-11-04-B05-DF-437	11/22/2004 13:05	1,1 - Dichloroethane	0.96	1	J / TR	SW8260B	µg/L
B-05	TEAD-11-04-B05-DF-437	11/22/2004 13:05	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
B-05	TEAD-11-04-B05-DF-437	11/22/2004 13:05	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
B-05	TEAD-11-04-B05-DF-437	11/22/2004 13:05	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
B-05	TEAD-11-04-B05-DF-437	11/22/2004 13:05	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
B-05	TEAD-11-04-B05-DF-437	11/22/2004 13:05	1,2 Dicholorethane	ND	1	U	SW8260B	µg/L
B-05	TEAD-11-04-B05-DF-437	11/22/2004 13:05	Benzene	ND	1	U	SW8260B	µg/L
B-05	TEAD-11-04-B05-DF-437	11/22/2004 13:05	Carbon Tetrachloride	10	1		SW8260B	µg/L
B-05	TEAD-11-04-B05-DF-437	11/22/2004 13:05	Chloroethane	ND	1	U	SW8260B	µg/L
B-05	TEAD-11-04-B05-DF-437	11/22/2004 13:05	Chloroform	1.7	1		SW8260B	µg/L
B-05	TEAD-11-04-B05-DF-437	11/22/2004 13:05	Ethylbenzene	ND	1	U	SW8260B	µg/L
B-05	TEAD-11-04-B05-DF-437	11/22/2004 13:05	Methylene Chloride	ND	5	U	SW8260B	µg/L
B-05	TEAD-11-04-B05-DF-437	11/22/2004 13:05	Tetrachloroethane (PCE)	0.4	1	J / TR	SW8260B	µg/L
B-05	TEAD-11-04-B05-DF-437	11/22/2004 13:05	Toluene	ND	1	U	SW8260B	µg/L
B-05	TEAD-11-04-B05-DF-437	11/22/2004 13:05	Trichloroethene (TCE)	75	10		SW8260B	µg/L
B-05	TEAD-11-04-B05-DF-437	11/22/2004 13:05	Vinyl Chloride	ND	2	U	SW8260B	µg/L
B-05	TEAD-11-04-B05-DF-437	11/22/2004 13:05	Xylenes	ND	1	U	SW8260B	µg/L
B-06	TEAD-11-04-B06-DF-297	11/22/2004 10:45	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
B-06	TEAD-11-04-B06-DF-297	11/22/2004 10:45	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
B-06	TEAD-11-04-B06-DF-297	11/22/2004 10:45	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
B-06	TEAD-11-04-B06-DF-297	11/22/2004 10:45	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
B-06	TEAD-11-04-B06-DF-297	11/22/2004 10:45	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
B-06	TEAD-11-04-B06-DF-297	11/22/2004 10:45	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
B-06	TEAD-11-04-B06-DF-297	11/22/2004 10:45	1,2 Dicholorethane	ND	1	U	SW8260B	µg/L
B-06	TEAD-11-04-B06-DF-297	11/22/2004 10:45	Benzene	ND	1	U	SW8260B	µg/L
B-06	TEAD-11-04-B06-DF-297	11/22/2004 10:45	Carbon Tetrachloride	ND	1	U	SW8260B	µg/L
B-06	TEAD-11-04-B06-DF-297	11/22/2004 10:45	Chloroethane	ND	1	U	SW8260B	µg/L
B-06	TEAD-11-04-B06-DF-297	11/22/2004 10:45	Chloroform	ND	1	U	SW8260B	µg/L
B-06	TEAD-11-04-B06-DF-297	11/22/2004 10:45	Ethylbenzene	ND	1	U	SW8260B	µg/L
B-06	TEAD-11-04-B06-DF-297	11/22/2004 10:45	Methylene Chloride	ND	5	U	SW8260B	µg/L

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WELL ID	FIELD SAMPLE ID	SAMPLING DATE	ANALYTE	RESULT	PQL	QUALIFER	METHOD	UNITS
B-06	TEAD-11-04-B06-DF-297	11/22/2004 10:45	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
B-06	TEAD-11-04-B06-DF-297	11/22/2004 10:45	Toluene	ND	1	U	SW8260B	µg/L
B-06	TEAD-11-04-B06-DF-297	11/22/2004 10:45	Trichloroethene (TCE)	6.2	1		SW8260B	µg/L
B-06	TEAD-11-04-B06-DF-297	11/22/2004 10:45	Vinyl Chloride	ND	2	U	SW8260B	µg/L
B-06	TEAD-11-04-B06-DF-297	11/22/2004 10:45	Xylenes	ND	1	U	SW8260B	µg/L
B-07	TEAD-11-04-B07-DF-290	11/15/2004 14:00	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
B-07	TEAD-11-04-B07-DF-290	11/15/2004 14:00	1,1 - Dichloroethane	0.43	1	J / TR	SW8260B	µg/L
B-07	TEAD-11-04-B07-DF-290	11/15/2004 14:00	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
B-07	TEAD-11-04-B07-DF-290	11/15/2004 14:00	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
B-07	TEAD-11-04-B07-DF-290	11/15/2004 14:00	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
B-07	TEAD-11-04-B07-DF-290	11/15/2004 14:00	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
B-07	TEAD-11-04-B07-DF-290	11/15/2004 14:00	1,2 Dicholorethane	ND	1	U	SW8260B	µg/L
B-07	TEAD-11-04-B07-KA	11/17/2004 12:30	1,4-Dioxane	ND	1	UJ	SW8270SIM	µg/L
B-07	TEAD-11-04-B07-DF-290	11/15/2004 14:00	Benzene	ND	1	U	SW8260B	µg/L
B-07	TEAD-11-04-B07-DF-290	11/15/2004 14:00	Carbon Tetrachloride	0.37	1	J / TR	SW8260B	µg/L
B-07	TEAD-11-04-B07-DF-290	11/15/2004 14:00	Chloroethane	ND	1	U	SW8260B	µg/L
B-07	TEAD-11-04-B07-DF-290	11/15/2004 14:00	Chloroform	0.54	1	J / TR	SW8260B	µg/L
B-07	TEAD-11-04-B07-DF-290	11/15/2004 14:00	Ethylbenzene	ND	1	U	SW8260B	µg/L
B-07	TEAD-11-04-B07-DF-290	11/15/2004 14:00	Methylene Chloride	ND	5	U	SW8260B	µg/L
B-07	TEAD-11-04-B07-DF-290	11/15/2004 14:00	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
B-07	TEAD-11-04-B07-DF-290	11/15/2004 14:00	Toluene	ND	1	U	SW8260B	µg/L
B-07	TEAD-11-04-B07-DF-290	11/15/2004 14:00	Trichloroethene (TCE)	26	1		SW8260B	µg/L
B-07	TEAD-11-04-B07-DF-290	11/15/2004 14:00	Vinyl Chloride	ND	2	U	SW8260B	µg/L
B-07	TEAD-11-04-B07-DF-290	11/15/2004 14:00	Xylenes	ND	1	U	SW8260B	µg/L
B-09	TEAD-11-04-B09-DF-380	11/18/2004 9:00	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
B-09	TEAD-11-04-B09-DF-380	11/18/2004 9:00	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
B-09	TEAD-11-04-B09-DF-380	11/18/2004 9:00	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
B-09	TEAD-11-04-B09-DF-380	11/18/2004 9:00	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
B-09	TEAD-11-04-B09-DF-380	11/18/2004 9:00	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
B-09	TEAD-11-04-B09-DF-380	11/18/2004 9:00	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
B-09	TEAD-11-04-B09-DF-380	11/18/2004 9:00	1,2 Dicholorethane	ND	1	U	SW8260B	µg/L
B-09	TEAD-11-04-B09-DF-380	11/18/2004 9:00	Benzene	ND	1	U	SW8260B	µg/L
B-09	TEAD-11-04-B09-DF-380	11/18/2004 9:00	Carbon Tetrachloride	4.2	1		SW8260B	µg/L
B-09	TEAD-11-04-B09-DF-380	11/18/2004 9:00	Chloroethane	ND	1	U	SW8260B	µg/L

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WELL ID	FIELD SAMPLE ID	SAMPLING DATE	ANALYTE	RESULT	PQL	QUALIFER	METHOD	UNITS
B-09	TEAD-11-04-B09-DF-380	11/18/2004 9:00	Chloroform	0.33	1	J / TR	SW8260B	µg/L
B-09	TEAD-11-04-B09-DF-380	11/18/2004 9:00	Ethylbenzene	ND	1	U	SW8260B	µg/L
B-09	TEAD-11-04-B09-DF-380	11/18/2004 9:00	Methylene Chloride	ND	5	U	SW8260B	µg/L
B-09	TEAD-11-04-B09-DF-380	11/18/2004 9:00	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
B-09	TEAD-11-04-B09-DF-380	11/18/2004 9:00	Toluene	ND	1	U	SW8260B	µg/L
B-09	TEAD-11-04-B09-DF-380	11/18/2004 9:00	Trichloroethene (TCE)	18	1		SW8260B	µg/L
B-09	TEAD-11-04-B09-DF-380	11/18/2004 9:00	Vinyl Chloride	ND	2	U	SW8260B	µg/L
B-09	TEAD-11-04-B09-DF-380	11/18/2004 9:00	Xylenes	ND	1	U	SW8260B	µg/L
B-10	TEAD-11-04-B10-DF-294	11/18/2004 9:50	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
B-10	TEAD-11-04-B10-DF-294	11/18/2004 9:50	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
B-10	TEAD-11-04-B10-DF-294	11/18/2004 9:50	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
B-10	TEAD-11-04-B10-DF-294	11/18/2004 9:50	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
B-10	TEAD-11-04-B10-DF-294	11/18/2004 9:50	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
B-10	TEAD-11-04-B10-DF-294	11/18/2004 9:50	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
B-10	TEAD-11-04-B10-DF-294	11/18/2004 9:50	1,2 Dichlorethane	ND	1	U	SW8260B	µg/L
B-10	TEAD-11-04-B10-DF-294	11/18/2004 9:50	Benzene	ND	1	U	SW8260B	µg/L
B-10	TEAD-11-04-B10-DF-294	11/18/2004 9:50	Carbon Tetrachloride	5	1		SW8260B	µg/L
B-10	TEAD-11-04-B10-DF-294	11/18/2004 9:50	Chloroethane	ND	1	U	SW8260B	µg/L
B-10	TEAD-11-04-B10-DF-294	11/18/2004 9:50	Chloroform	ND	1	U	SW8260B	µg/L
B-10	TEAD-11-04-B10-DF-294	11/18/2004 9:50	Ethylbenzene	ND	1	U	SW8260B	µg/L
B-10	TEAD-11-04-B10-DF-294	11/18/2004 9:50	Methylene Chloride	ND	5	U	SW8260B	µg/L
B-10	TEAD-11-04-B10-DF-294	11/18/2004 9:50	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
B-10	TEAD-11-04-B10-DF-294	11/18/2004 9:50	Toluene	ND	1	U	SW8260B	µg/L
B-10	TEAD-11-04-B10-DF-294	11/18/2004 9:50	Trichloroethene (TCE)	31	1		SW8260B	µg/L
B-10	TEAD-11-04-B10-DF-294	11/18/2004 9:50	Vinyl Chloride	ND	2	U	SW8260B	µg/L
B-10	TEAD-11-04-B10-DF-294	11/18/2004 9:50	Xylenes	ND	1	U	SW8260B	µg/L
B-12	TEAD-11-04-B12-DF-270	11/22/2004 10:15	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
B-12	TEAD-11-04-B12-DF-270	11/22/2004 10:15	1,1 - Dichloroethane	0.29	1	J / TR	SW8260B	µg/L
B-12	TEAD-11-04-B12-DF-270	11/22/2004 10:15	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
B-12	TEAD-11-04-B12-DF-270	11/22/2004 10:15	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
B-12	TEAD-11-04-B12-DF-270	11/22/2004 10:15	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
B-12	TEAD-11-04-B12-DF-270	11/22/2004 10:15	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
B-12	TEAD-11-04-B12-DF-270	11/22/2004 10:15	1,2 Dichlorethane	ND	1	U	SW8260B	µg/L
B-12	TEAD-11-04-B12-DF-270	11/22/2004 10:15	Benzene	ND	1	U	SW8260B	µg/L

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WELL ID	FIELD SAMPLE ID	SAMPLING DATE	ANALYTE	RESULT	PQL	QUALIFER	METHOD	UNITS
B-12	TEAD-11-04-B12-DF-270	11/22/2004 10:15	Carbon Tetrachloride	1.4	1		SW8260B	µg/L
B-12	TEAD-11-04-B12-DF-270	11/22/2004 10:15	Chloroethane	ND	1	U	SW8260B	µg/L
B-12	TEAD-11-04-B12-DF-270	11/22/2004 10:15	Chloroform	ND	1	U	SW8260B	µg/L
B-12	TEAD-11-04-B12-DF-270	11/22/2004 10:15	Ethylbenzene	ND	1	U	SW8260B	µg/L
B-12	TEAD-11-04-B12-DF-270	11/22/2004 10:15	Methylene Chloride	ND	5	U	SW8260B	µg/L
B-12	TEAD-11-04-B12-DF-270	11/22/2004 10:15	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
B-12	TEAD-11-04-B12-DF-270	11/22/2004 10:15	Toluene	ND	1	U	SW8260B	µg/L
B-12	TEAD-11-04-B12-DF-270	11/22/2004 10:15	Trichloroethene (TCE)	14	1		SW8260B	µg/L
B-12	TEAD-11-04-B12-DF-270	11/22/2004 10:15	Vinyl Chloride	ND	2	U	SW8260B	µg/L
B-12	TEAD-11-04-B12-DF-270	11/22/2004 10:15	Xylenes	ND	1	U	SW8260B	µg/L
B-14A	TEAD-11-04-B14A-DF-270	11/18/2004 14:40	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
B-14A	TEAD-11-04-B14A-DF-270	11/18/2004 14:40	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
B-14A	TEAD-11-04-B14A-DF-270	11/18/2004 14:40	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
B-14A	TEAD-11-04-B14A-DF-270	11/18/2004 14:40	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
B-14A	TEAD-11-04-B14A-DF-270	11/18/2004 14:40	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
B-14A	TEAD-11-04-B14A-DF-270	11/18/2004 14:40	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
B-14A	TEAD-11-04-B14A-DF-270	11/18/2004 14:40	1,2 Dicholorethane	ND	1	U	SW8260B	µg/L
B-14A	TEAD-11-04-B14A-DF-270	11/18/2004 14:40	Benzene	ND	1	U	SW8260B	µg/L
B-14A	TEAD-11-04-B14A-DF-270	11/18/2004 14:40	Carbon Tetrachloride	ND	1	U	SW8260B	µg/L
B-14A	TEAD-11-04-B14A-DF-270	11/18/2004 14:40	Chloroethane	ND	1	U	SW8260B	µg/L
B-14A	TEAD-11-04-B14A-DF-270	11/18/2004 14:40	Chloroform	ND	1	U	SW8260B	µg/L
B-14A	TEAD-11-04-B14A-DF-270	11/18/2004 14:40	Ethylbenzene	ND	1	U	SW8260B	µg/L
B-14A	TEAD-11-04-B14A-DF-270	11/18/2004 14:40	Methylene Chloride	ND	5	U	SW8260B	µg/L
B-14A	TEAD-11-04-B14A-DF-270	11/18/2004 14:40	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
B-14A	TEAD-11-04-B14A-DF-270	11/18/2004 14:40	Toluene	ND	1	U	SW8260B	µg/L
B-14A	TEAD-11-04-B14A-DF-270	11/18/2004 14:40	Trichloroethene (TCE)	ND	1	U	SW8260B	µg/L
B-14A	TEAD-11-04-B14A-DF-270	11/18/2004 14:40	Vinyl Chloride	ND	2	U	SW8260B	µg/L
B-14A	TEAD-11-04-B14A-DF-270	11/18/2004 14:40	Xylenes	ND	1	U	SW8260B	µg/L
B-16	TEAD-11-04-B16-DF-290	11/18/2004 11:10	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
B-16	TEAD-11-04-B16-DF-290	11/18/2004 11:10	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
B-16	TEAD-11-04-B16-DF-290	11/18/2004 11:10	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
B-16	TEAD-11-04-B16-DF-290	11/18/2004 11:10	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
B-16	TEAD-11-04-B16-DF-290	11/18/2004 11:10	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
B-16	TEAD-11-04-B16-DF-290	11/18/2004 11:10	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L

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WELL ID	FIELD SAMPLE ID	SAMPLING DATE	ANALYTE	RESULT	PQL	QUALIFER	METHOD	UNITS
B-16	TEAD-11-04-B16-DF-290	11/18/2004 11:10	1,2 Dichlorethane	ND	1	U	SW8260B	µg/L
B-16	TEAD-11-04-B16-DF-290	11/18/2004 11:10	Benzene	ND	1	U	SW8260B	µg/L
B-16	TEAD-11-04-B16-DF-290	11/18/2004 11:10	Carbon Tetrachloride	0.33	1	J / TR	SW8260B	µg/L
B-16	TEAD-11-04-B16-DF-290	11/18/2004 11:10	Chloroethane	ND	1	U	SW8260B	µg/L
B-16	TEAD-11-04-B16-DF-290	11/18/2004 11:10	Chloroform	ND	1	U	SW8260B	µg/L
B-16	TEAD-11-04-B16-DF-290	11/18/2004 11:10	Ethylbenzene	ND	1	U	SW8260B	µg/L
B-16	TEAD-11-04-B16-DF-290	11/18/2004 11:10	Methylene Chloride	ND	5	U	SW8260B	µg/L
B-16	TEAD-11-04-B16-DF-290	11/18/2004 11:10	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
B-16	TEAD-11-04-B16-DF-290	11/18/2004 11:10	Toluene	ND	1	U	SW8260B	µg/L
B-16	TEAD-11-04-B16-DF-290	11/18/2004 11:10	Trichloroethene (TCE)	1.2	1		SW8260B	µg/L
B-16	TEAD-11-04-B16-DF-290	11/18/2004 11:10	Vinyl Chloride	ND	2	U	SW8260B	µg/L
B-16	TEAD-11-04-B16-DF-290	11/18/2004 11:10	Xylenes	ND	1	U	SW8260B	µg/L
B-17	TEAD-11-04-B17-DF-450	11/18/2004 12:55	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
B-17	TEAD-11-04-B17-DF-450	11/18/2004 12:55	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
B-17	TEAD-11-04-B17-DF-450	11/18/2004 12:55	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
B-17	TEAD-11-04-B17-DF-450	11/18/2004 12:55	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
B-17	TEAD-11-04-B17-DF-450	11/18/2004 12:55	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
B-17	TEAD-11-04-B17-DF-450	11/18/2004 12:55	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
B-17	TEAD-11-04-B17-DF-450	11/18/2004 12:55	1,2 Dichlorethane	ND	1	U	SW8260B	µg/L
B-17	TEAD-11-04-B17-DF-450	11/18/2004 12:55	Benzene	ND	1	U	SW8260B	µg/L
B-17	TEAD-11-04-B17-DF-450	11/18/2004 12:55	Carbon Tetrachloride	ND	1	U	SW8260B	µg/L
B-17	TEAD-11-04-B17-DF-450	11/18/2004 12:55	Chloroethane	ND	1	U	SW8260B	µg/L
B-17	TEAD-11-04-B17-DF-450	11/18/2004 12:55	Chloroform	ND	1	U	SW8260B	µg/L
B-17	TEAD-11-04-B17-DF-450	11/18/2004 12:55	Ethylbenzene	ND	1	U	SW8260B	µg/L
B-17	TEAD-11-04-B17-DF-450	11/18/2004 12:55	Methylene Chloride	ND	5	U	SW8260B	µg/L
B-17	TEAD-11-04-B17-DF-450	11/18/2004 12:55	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
B-17	TEAD-11-04-B17-DF-450	11/18/2004 12:55	Toluene	ND	1	U	SW8260B	µg/L
B-17	TEAD-11-04-B17-DF-450	11/18/2004 12:55	Trichloroethene (TCE)	3	1		SW8260B	µg/L
B-17	TEAD-11-04-B17-DF-450	11/18/2004 12:55	Vinyl Chloride	ND	2	U	SW8260B	µg/L
B-17	TEAD-11-04-B17-DF-450	11/18/2004 12:55	Xylenes	ND	1	U	SW8260B	µg/L
B-18	TEAD-11-04-B18-DF-220	11/18/2004 13:10	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
B-18	TEAD-11-04-B18-DF-220	11/18/2004 13:10	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
B-18	TEAD-11-04-B18-DF-220	11/18/2004 13:10	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
B-18	TEAD-11-04-B18-DF-220	11/18/2004 13:10	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L

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WELL ID	FIELD SAMPLE ID	SAMPLING DATE	ANALYTE	RESULT	PQL	QUALIFER	METHOD	UNITS
B-18	TEAD-11-04-B18-DF-220	11/18/2004 13:10	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
B-18	TEAD-11-04-B18-DF-220	11/18/2004 13:10	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
B-18	TEAD-11-04-B18-DF-220	11/18/2004 13:10	1,2 Dichloroethane	ND	1	U	SW8260B	µg/L
B-18	TEAD-11-04-B18-DF-220	11/18/2004 13:10	Benzene	ND	1	U	SW8260B	µg/L
B-18	TEAD-11-04-B18-DF-220	11/18/2004 13:10	Carbon Tetrachloride	ND	1	U	SW8260B	µg/L
B-18	TEAD-11-04-B18-DF-220	11/18/2004 13:10	Chloroethane	ND	1	U	SW8260B	µg/L
B-18	TEAD-11-04-B18-DF-220	11/18/2004 13:10	Chloroform	ND	1	U	SW8260B	µg/L
B-18	TEAD-11-04-B18-DF-220	11/18/2004 13:10	Ethylbenzene	ND	1	U	SW8260B	µg/L
B-18	TEAD-11-04-B18-DF-220	11/18/2004 13:10	Methylene Chloride	ND	5	U	SW8260B	µg/L
B-18	TEAD-11-04-B18-DF-220	11/18/2004 13:10	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
B-18	TEAD-11-04-B18-DF-220	11/18/2004 13:10	Toluene	ND	1	U	SW8260B	µg/L
B-18	TEAD-11-04-B18-DF-220	11/18/2004 13:10	Trichloroethene (TCE)	2.1	1		SW8260B	µg/L
B-18	TEAD-11-04-B18-DF-220	11/18/2004 13:10	Vinyl Chloride	ND	2	U	SW8260B	µg/L
B-18	TEAD-11-04-B18-DF-220	11/18/2004 13:10	Xylenes	ND	1	U	SW8260B	µg/L
B-19	TEAD-11-04-B19-DF-266	11/15/2004 15:05	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
B-19	TEAD-11-04-B19-DF-266	11/15/2004 15:05	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
B-19	TEAD-11-04-B19-DF-266	11/15/2004 15:05	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
B-19	TEAD-11-04-B19-DF-266	11/15/2004 15:05	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
B-19	TEAD-11-04-B19-DF-266	11/15/2004 15:05	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
B-19	TEAD-11-04-B19-DF-266	11/15/2004 15:05	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
B-19	TEAD-11-04-B19-DF-266	11/15/2004 15:05	1,2 Dichloroethane	ND	1	U	SW8260B	µg/L
B-19	TEAD-11-04-B19-DF-266	11/15/2004 15:05	Benzene	ND	1	U	SW8260B	µg/L
B-19	TEAD-11-04-B19-DF-266	11/15/2004 15:05	Carbon Tetrachloride	ND	1	U	SW8260B	µg/L
B-19	TEAD-11-04-B19-DF-266	11/15/2004 15:05	Chloroethane	ND	1	U	SW8260B	µg/L
B-19	TEAD-11-04-B19-DF-266	11/15/2004 15:05	Chloroform	ND	1	U	SW8260B	µg/L
B-19	TEAD-11-04-B19-DF-266	11/15/2004 15:05	Ethylbenzene	ND	1	U	SW8260B	µg/L
B-19	TEAD-11-04-B19-DF-266	11/15/2004 15:05	Methylene Chloride	ND	5	U	SW8260B	µg/L
B-19	TEAD-11-04-B19-DF-266	11/15/2004 15:05	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
B-19	TEAD-11-04-B19-DF-266	11/15/2004 15:05	Toluene	ND	1	U	SW8260B	µg/L
B-19	TEAD-11-04-B19-DF-266	11/15/2004 15:05	Trichloroethene (TCE)	1.8	1		SW8260B	µg/L
B-19	TEAD-11-04-B19-DF-266	11/15/2004 15:05	Vinyl Chloride	ND	2	U	SW8260B	µg/L
B-19	TEAD-11-04-B19-DF-266	11/15/2004 15:05	Xylenes	ND	1	U	SW8260B	µg/L
B-21	TEAD-11-04-B21-DF-261	11/22/2004 14:20	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
B-21	TEAD-11-04-B21-DF-261	11/22/2004 14:20	1,1 - Dichloroethene	0.51	1	J / TR	SW8260B	µg/L

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WELL ID	FIELD SAMPLE ID	SAMPLING DATE	ANALYTE	RESULT	PQL	QUALIFER	METHOD	UNITS
B-21	TEAD-11-04-B21-DF-261	11/22/2004 14:20	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
B-21	TEAD-11-04-B21-DF-261	11/22/2004 14:20	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
B-21	TEAD-11-04-B21-DF-261	11/22/2004 14:20	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
B-21	TEAD-11-04-B21-DF-261	11/22/2004 14:20	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
B-21	TEAD-11-04-B21-DF-261	11/22/2004 14:20	1,2 Dichlorethane	ND	1	U	SW8260B	µg/L
B-21	TEAD-11-04-B21-DF-261	11/22/2004 14:20	Benzene	ND	1	U	SW8260B	µg/L
B-21	TEAD-11-04-B21-DF-261	11/22/2004 14:20	Carbon Tetrachloride	0.85	1		SW8260B	µg/L
B-21	TEAD-11-04-B21-DF-261	11/22/2004 14:20	Chloroethane	ND	1	U	SW8260B	µg/L
B-21	TEAD-11-04-B21-DF-261	11/22/2004 14:20	Chloroform	0.33	1	J / TR	SW8260B	µg/L
B-21	TEAD-11-04-B21-DF-261	11/22/2004 14:20	Ethylbenzene	ND	1	U	SW8260B	µg/L
B-21	TEAD-11-04-B21-DF-261	11/22/2004 14:20	Methylene Chloride	ND	5	U	SW8260B	µg/L
B-21	TEAD-11-04-B21-DF-261	11/22/2004 14:20	Tetrachloroethane (PCE)	0.48	1	J / TR	SW8260B	µg/L
B-21	TEAD-11-04-B21-DF-261	11/22/2004 14:20	Toluene	ND	1	U	SW8260B	µg/L
B-21	TEAD-11-04-B21-DF-261	11/22/2004 14:20	Trichloroethene (TCE)	57	5		SW8260B	µg/L
B-21	TEAD-11-04-B21-DF-261	11/22/2004 14:20	Vinyl Chloride	ND	2	U	SW8260B	µg/L
B-21	TEAD-11-04-B21-DF-261	11/22/2004 14:20	Xylenes	0.85	1	J / TR	SW8260B	µg/L
B-22	TEAD-11-04-B22-DF-365	11/22/2004 14:00	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
B-22	TEAD-11-04-B22-DF-365	11/22/2004 14:00	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
B-22	TEAD-11-04-B22-DF-365	11/22/2004 14:00	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
B-22	TEAD-11-04-B22-DF-365	11/22/2004 14:00	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
B-22	TEAD-11-04-B22-DF-365	11/22/2004 14:00	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
B-22	TEAD-11-04-B22-DF-365	11/22/2004 14:00	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
B-22	TEAD-11-04-B22-DF-365	11/22/2004 14:00	1,2 Dichlorethane	ND	1	U	SW8260B	µg/L
B-22	TEAD-11-04-B22-DF-365	11/22/2004 14:00	Benzene	ND	1	U	SW8260B	µg/L
B-22	TEAD-11-04-B22-DF-365	11/22/2004 14:00	Carbon Tetrachloride	2.5	1		SW8260B	µg/L
B-22	TEAD-11-04-B22-DF-365	11/22/2004 14:00	Chloroethane	ND	1	U	SW8260B	µg/L
B-22	TEAD-11-04-B22-DF-365	11/22/2004 14:00	Chloroform	ND	1	U	SW8260B	µg/L
B-22	TEAD-11-04-B22-DF-365	11/22/2004 14:00	Ethylbenzene	ND	1	U	SW8260B	µg/L
B-22	TEAD-11-04-B22-DF-365	11/22/2004 14:00	Methylene Chloride	ND	5	U	SW8260B	µg/L
B-22	TEAD-11-04-B22-DF-365	11/22/2004 14:00	Tetrachloroethane (PCE)	0.34	1	J / TR	SW8260B	µg/L
B-22	TEAD-11-04-B22-DF-365	11/22/2004 14:00	Toluene	ND	1	U	SW8260B	µg/L
B-22	TEAD-11-04-B22-DF-365	11/22/2004 14:00	Trichloroethene (TCE)	20	1		SW8260B	µg/L
B-22	TEAD-11-04-B22-DF-365	11/22/2004 14:00	Vinyl Chloride	ND	2	U	SW8260B	µg/L
B-22	TEAD-11-04-B22-DF-365	11/22/2004 14:00	Xylenes	ND	1	U	SW8260B	µg/L

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WELL ID	FIELD SAMPLE ID	SAMPLING DATE	ANALYTE	RESULT	PQL	QUALIFER	METHOD	UNITS
B-24	TEAD-11-04-B24-DF-387	11/22/2004 12:00	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
B-24	TEAD-11-04-B24-DF-387	11/22/2004 12:00	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
B-24	TEAD-11-04-B24-DF-387	11/22/2004 12:00	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
B-24	TEAD-11-04-B24-DF-387	11/22/2004 12:00	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
B-24	TEAD-11-04-B24-DF-387	11/22/2004 12:00	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
B-24	TEAD-11-04-B24-DF-387	11/22/2004 12:00	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
B-24	TEAD-11-04-B24-DF-387	11/22/2004 12:00	1,2 Dicholorethane	ND	1	U	SW8260B	µg/L
B-24	TEAD-11-04-B24-DF-387	11/22/2004 12:00	Benzene	ND	1	U	SW8260B	µg/L
B-24	TEAD-11-04-B24-DF-387	11/22/2004 12:00	Carbon Tetrachloride	4.6	1		SW8260B	µg/L
B-24	TEAD-11-04-B24-DF-387	11/22/2004 12:00	Chloroethane	ND	1	U	SW8260B	µg/L
B-24	TEAD-11-04-B24-DF-387	11/22/2004 12:00	Chloroform	0.22	1	J / TR	SW8260B	µg/L
B-24	TEAD-11-04-B24-DF-387	11/22/2004 12:00	Ethylbenzene	ND	1	U	SW8260B	µg/L
B-24	TEAD-11-04-B24-DF-387	11/22/2004 12:00	Methylene Chloride	ND	5	U	SW8260B	µg/L
B-24	TEAD-11-04-B24-DF-387	11/22/2004 12:00	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
B-24	TEAD-11-04-B24-DF-387	11/22/2004 12:00	Toluene	ND	1	U	SW8260B	µg/L
B-24	TEAD-11-04-B24-DF-387	11/22/2004 12:00	Trichloroethene (TCE)	4.1	1		SW8260B	µg/L
B-24	TEAD-11-04-B24-DF-387	11/22/2004 12:00	Vinyl Chloride	ND	2	U	SW8260B	µg/L
B-24	TEAD-11-04-B24-DF-387	11/22/2004 12:00	Xylenes	ND	1	U	SW8260B	µg/L
B-26	TEAD-11-04-B26-DF-325	11/15/2004 13:00	1,1 - Dichloroethene	12	1		SW8260B	µg/L
B-26	TEAD-11-04-B26-DF-325	11/15/2004 13:00	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
B-26	TEAD-11-04-B26-DF-325	11/15/2004 13:00	1,1,1 - Trichloroethane	1.7	1		SW8260B	µg/L
B-26	TEAD-11-04-B26-DF-325	11/15/2004 13:00	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
B-26	TEAD-11-04-B26-DF-325	11/15/2004 13:00	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
B-26	TEAD-11-04-B26-DF-325	11/15/2004 13:00	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
B-26	TEAD-11-04-B26-DF-325	11/15/2004 13:00	1,2 Dicholorethane	ND	1	U	SW8260B	µg/L
B-26	TEAD-11-04-B26-KA	11/16/2004 15:00	1,4-Dioxane	2.2	1	J	SW8270SIM	µg/L
B-26	TEAD-11-04-B26-DF-325	11/15/2004 13:00	Benzene	ND	1	U	SW8260B	µg/L
B-26	TEAD-11-04-B26-DF-325	11/15/2004 13:00	Carbon Tetrachloride	22	1		SW8260B	µg/L
B-26	TEAD-11-04-B26-DF-325	11/15/2004 13:00	Chloroethane	ND	1	U	SW8260B	µg/L
B-26	TEAD-11-04-B26-DF-325	11/15/2004 13:00	Chloroform	0.88	1	J / TR	SW8260B	µg/L
B-26	TEAD-11-04-B26-DF-325	11/15/2004 13:00	Ethylbenzene	ND	1	U	SW8260B	µg/L
B-26	TEAD-11-04-B26-DF-325	11/15/2004 13:00	Methylene Chloride	ND	5	U	SW8260B	µg/L
B-26	TEAD-11-04-B26-DF-325	11/15/2004 13:00	Tetrachloroethane (PCE)	32	1		SW8260B	µg/L
B-26	TEAD-11-04-B26-DF-325	11/15/2004 13:00	Toluene	ND	1	U	SW8260B	µg/L

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WELL ID	FIELD SAMPLE ID	SAMPLING DATE	ANALYTE	RESULT	PQL	QUALIFER	METHOD	UNITS
B-26	TEAD-11-04-B26-DF-325	11/15/2004 13:00	Trichloroethene (TCE)	210	10		SW8260B	µg/L
B-26	TEAD-11-04-B26-DF-325	11/15/2004 13:00	Vinyl Chloride	ND	2	U	SW8260B	µg/L
B-26	TEAD-11-04-B26-DF-325	11/15/2004 13:00	Xylenes	ND	1	U	SW8260B	µg/L
B-27	TEAD-11-04-B27-DF-266	11/22/2004 13:20	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
B-27	TEAD-11-04-B27-DF-266	11/22/2004 13:20	1,1 - Dichloroethene	1.7	1		SW8260B	µg/L
B-27	TEAD-11-04-B27-DF-266	11/22/2004 13:20	1,1,1 - Trichloroethane	0.2	1	J / TR	SW8260B	µg/L
B-27	TEAD-11-04-B27-DF-266	11/22/2004 13:20	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
B-27	TEAD-11-04-B27-DF-266	11/22/2004 13:20	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
B-27	TEAD-11-04-B27-DF-266	11/22/2004 13:20	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
B-27	TEAD-11-04-B27-DF-266	11/22/2004 13:20	1,2 Dicholorethane	ND	1	U	SW8260B	µg/L
B-27	TEAD-11-04-B27-DF-266	11/22/2004 13:20	Benzene	ND	1	U	SW8260B	µg/L
B-27	TEAD-11-04-B27-DF-266	11/22/2004 13:20	Carbon Tetrachloride	23	1		SW8260B	µg/L
B-27	TEAD-11-04-B27-DF-266	11/22/2004 13:20	Chloroethane	ND	1	U	SW8260B	µg/L
B-27	TEAD-11-04-B27-DF-266	11/22/2004 13:20	Chloroform	0.61	1	J / TR	SW8260B	µg/L
B-27	TEAD-11-04-B27-DF-266	11/22/2004 13:20	Ethylbenzene	ND	1	U	SW8260B	µg/L
B-27	TEAD-11-04-B27-DF-266	11/22/2004 13:20	Methylene Chloride	ND	5	U	SW8260B	µg/L
B-27	TEAD-11-04-B27-DF-266	11/22/2004 13:20	Tetrachloroethane (PCE)	4.7	1		SW8260B	µg/L
B-27	TEAD-11-04-B27-DF-266	11/22/2004 13:20	Toluene	ND	1	U	SW8260B	µg/L
B-27	TEAD-11-04-B27-DF-266	11/22/2004 13:20	Trichloroethene (TCE)	95	10		SW8260B	µg/L
B-27	TEAD-11-04-B27-DF-266	11/22/2004 13:20	Vinyl Chloride	ND	2	U	SW8260B	µg/L
B-27	TEAD-11-04-B27-DF-266	11/22/2004 13:20	Xylenes	ND	1	U	SW8260B	µg/L
B-30	TEAD-11-04-B30-DF-237	11/18/2004 14:25	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
B-30	TEAD-11-04-B30-DF-237	11/18/2004 14:25	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
B-30	TEAD-11-04-B30-DF-237	11/18/2004 14:25	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
B-30	TEAD-11-04-B30-DF-237	11/18/2004 14:25	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
B-30	TEAD-11-04-B30-DF-237	11/18/2004 14:25	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
B-30	TEAD-11-04-B30-DF-237	11/18/2004 14:25	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
B-30	TEAD-11-04-B30-DF-237	11/18/2004 14:25	1,2 Dicholorethane	ND	1	U	SW8260B	µg/L
B-30	TEAD-11-04-B30-DF-237	11/18/2004 14:25	Benzene	ND	1	U	SW8260B	µg/L
B-30	TEAD-11-04-B30-DF-237	11/18/2004 14:25	Carbon Tetrachloride	ND	1	U	SW8260B	µg/L
B-30	TEAD-11-04-B30-DF-237	11/18/2004 14:25	Chloroethane	ND	1	U	SW8260B	µg/L
B-30	TEAD-11-04-B30-DF-237	11/18/2004 14:25	Chloroform	ND	1	U	SW8260B	µg/L
B-30	TEAD-11-04-B30-DF-237	11/18/2004 14:25	Ethylbenzene	ND	1	U	SW8260B	µg/L
B-30	TEAD-11-04-B30-DF-237	11/18/2004 14:25	Methylene Chloride	ND	5	U	SW8260B	µg/L

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WELL ID	FIELD SAMPLE ID	SAMPLING DATE	ANALYTE	RESULT	PQL	QUALIFER	METHOD	UNITS
B-30	TEAD-11-04-B30-DF-237	11/18/2004 14:25	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
B-30	TEAD-11-04-B30-DF-237	11/18/2004 14:25	Toluene	ND	1	U	SW8260B	µg/L
B-30	TEAD-11-04-B30-DF-237	11/18/2004 14:25	Trichloroethene (TCE)	4.5	1		SW8260B	µg/L
B-30	TEAD-11-04-B30-DF-237	11/18/2004 14:25	Vinyl Chloride	ND	2	U	SW8260B	µg/L
B-30	TEAD-11-04-B30-DF-237	11/18/2004 14:25	Xylenes	ND	1	U	SW8260B	µg/L
B-31	TEAD-11-04-B31-DF-436	11/18/2004 11:00	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
B-31	TEAD-11-04-B31-DF-436	11/18/2004 11:00	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
B-31	TEAD-11-04-B31-DF-436	11/18/2004 11:00	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
B-31	TEAD-11-04-B31-DF-436	11/18/2004 11:00	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
B-31	TEAD-11-04-B31-DF-436	11/18/2004 11:00	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
B-31	TEAD-11-04-B31-DF-436	11/18/2004 11:00	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
B-31	TEAD-11-04-B31-DF-436	11/18/2004 11:00	1,2 Dichloroethane	ND	1	U	SW8260B	µg/L
B-31	TEAD-11-04-B31-DF-436	11/18/2004 11:00	Benzene	ND	1	U	SW8260B	µg/L
B-31	TEAD-11-04-B31-DF-436	11/18/2004 11:00	Carbon Tetrachloride	ND	1	U	SW8260B	µg/L
B-31	TEAD-11-04-B31-DF-436	11/18/2004 11:00	Chloroethane	ND	1	U	SW8260B	µg/L
B-31	TEAD-11-04-B31-DF-436	11/18/2004 11:00	Chloroform	ND	1	U	SW8260B	µg/L
B-31	TEAD-11-04-B31-DF-436	11/18/2004 11:00	Ethylbenzene	ND	1	U	SW8260B	µg/L
B-31	TEAD-11-04-B31-DF-436	11/18/2004 11:00	Methylene Chloride	ND	5	U	SW8260B	µg/L
B-31	TEAD-11-04-B31-DF-436	11/18/2004 11:00	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
B-31	TEAD-11-04-B31-DF-436	11/18/2004 11:00	Toluene	ND	1	U	SW8260B	µg/L
B-31	TEAD-11-04-B31-DF-436	11/18/2004 11:00	Trichloroethene (TCE)	0.37	1	J / TR	SW8260B	µg/L
B-31	TEAD-11-04-B31-DF-436	11/18/2004 11:00	Vinyl Chloride	ND	2	U	SW8260B	µg/L
B-31	TEAD-11-04-B31-DF-436	11/18/2004 11:00	Xylenes	ND	1	U	SW8260B	µg/L
B-32	TEAD-11-04-B32-DF-230	11/18/2004 12:35	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
B-32	TEAD-11-04-B32-DF-230	11/18/2004 12:35	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
B-32	TEAD-11-04-B32-DF-230	11/18/2004 12:35	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
B-32	TEAD-11-04-B32-DF-230	11/18/2004 12:35	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
B-32	TEAD-11-04-B32-DF-230	11/18/2004 12:35	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
B-32	TEAD-11-04-B32-DF-230	11/18/2004 12:35	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
B-32	TEAD-11-04-B32-DF-230	11/18/2004 12:35	1,2 Dichloroethane	ND	1	U	SW8260B	µg/L
B-32	TEAD-11-04-B32-DF-230	11/18/2004 12:35	Benzene	ND	1	U	SW8260B	µg/L
B-32	TEAD-11-04-B32-DF-230	11/18/2004 12:35	Carbon Tetrachloride	0.38	1	J / TR	SW8260B	µg/L
B-32	TEAD-11-04-B32-DF-230	11/18/2004 12:35	Chloroethane	ND	1	U	SW8260B	µg/L
B-32	TEAD-11-04-B32-DF-230	11/18/2004 12:35	Chloroform	ND	1	U	SW8260B	µg/L

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WELL ID	FIELD SAMPLE ID	SAMPLING DATE	ANALYTE	RESULT	PQL	QUALIFER	METHOD	UNITS
B-32	TEAD-11-04-B32-DF-230	11/18/2004 12:35	Ethylbenzene	ND	1	U	SW8260B	µg/L
B-32	TEAD-11-04-B32-DF-230	11/18/2004 12:35	Methylene Chloride	ND	5	U	SW8260B	µg/L
B-32	TEAD-11-04-B32-DF-230	11/18/2004 12:35	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
B-32	TEAD-11-04-B32-DF-230	11/18/2004 12:35	Toluene	ND	1	U	SW8260B	µg/L
B-32	TEAD-11-04-B32-DF-230	11/18/2004 12:35	Trichloroethene (TCE)	2	1		SW8260B	µg/L
B-32	TEAD-11-04-B32-DF-230	11/18/2004 12:35	Vinyl Chloride	ND	2	U	SW8260B	µg/L
B-32	TEAD-11-04-B32-DF-230	11/18/2004 12:35	Xylenes	ND	1	U	SW8260B	µg/L
B-34	TEAD-11-04-B34-DF-236	11/15/2004 14:30	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
B-34	TEAD-11-04-B34-DF-236	11/15/2004 14:30	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
B-34	TEAD-11-04-B34-DF-236	11/15/2004 14:30	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
B-34	TEAD-11-04-B34-DF-236	11/15/2004 14:30	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
B-34	TEAD-11-04-B34-DF-236	11/15/2004 14:30	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
B-34	TEAD-11-04-B34-DF-236	11/15/2004 14:30	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
B-34	TEAD-11-04-B34-DF-236	11/15/2004 14:30	1,2 Dicholorethane	ND	1	U	SW8260B	µg/L
B-34	TEAD-11-04-B34-KA	11/17/2004 13:30	1,4-Dioxane	ND	1	U	SW8270SIM	µg/L
B-34	TEAD-11-04-B34-DF-236	11/15/2004 14:30	Benzene	ND	1	U	SW8260B	µg/L
B-34	TEAD-11-04-B34-DF-236	11/15/2004 14:30	Carbon Tetrachloride	ND	1	U	SW8260B	µg/L
B-34	TEAD-11-04-B34-DF-236	11/15/2004 14:30	Chloroethane	ND	1	U	SW8260B	µg/L
B-34	TEAD-11-04-B34-DF-236	11/15/2004 14:30	Chloroform	ND	1	U	SW8260B	µg/L
B-34	TEAD-11-04-B34-DF-236	11/15/2004 14:30	Ethylbenzene	ND	1	U	SW8260B	µg/L
B-34	TEAD-11-04-B34-DF-236	11/15/2004 14:30	Methylene Chloride	ND	5	U	SW8260B	µg/L
B-34	TEAD-11-04-B34-DF-236	11/15/2004 14:30	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
B-34	TEAD-11-04-B34-DF-236	11/15/2004 14:30	Toluene	ND	1	U	SW8260B	µg/L
B-34	TEAD-11-04-B34-DF-236	11/15/2004 14:30	Trichloroethene (TCE)	3.4	1		SW8260B	µg/L
B-34	TEAD-11-04-B34-DF-236	11/15/2004 14:30	Vinyl Chloride	ND	2	U	SW8260B	µg/L
B-34	TEAD-11-04-B34-DF-236	11/15/2004 14:30	Xylenes	ND	1	U	SW8260B	µg/L
B-35	TEAD-11-04-B35-DF-224	11/15/2004 14:45	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
B-35	TEAD-11-04-B35-DF-224	11/15/2004 14:45	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
B-35	TEAD-11-04-B35-DF-224	11/15/2004 14:45	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
B-35	TEAD-11-04-B35-DF-224	11/15/2004 14:45	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
B-35	TEAD-11-04-B35-DF-224	11/15/2004 14:45	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
B-35	TEAD-11-04-B35-DF-224	11/15/2004 14:45	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
B-35	TEAD-11-04-B35-DF-224	11/15/2004 14:45	1,2 Dicholorethane	ND	1	U	SW8260B	µg/L
B-35	TEAD-11-04-B35-DF-224	11/15/2004 14:45	Benzene	ND	1	U	SW8260B	µg/L

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WELL ID	FIELD SAMPLE ID	SAMPLING DATE	ANALYTE	RESULT	PQL	QUALIFER	METHOD	UNITS
B-35	TEAD-11-04-B35-DF-224	11/15/2004 14:45	Carbon Tetrachloride	ND	1	U	SW8260B	µg/L
B-35	TEAD-11-04-B35-DF-224	11/15/2004 14:45	Chloroethane	ND	1	U	SW8260B	µg/L
B-35	TEAD-11-04-B35-DF-224	11/15/2004 14:45	Chloroform	ND	1	U	SW8260B	µg/L
B-35	TEAD-11-04-B35-DF-224	11/15/2004 14:45	Ethylbenzene	ND	1	U	SW8260B	µg/L
B-35	TEAD-11-04-B35-DF-224	11/15/2004 14:45	Methylene Chloride	ND	5	U	SW8260B	µg/L
B-35	TEAD-11-04-B35-DF-224	11/15/2004 14:45	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
B-35	TEAD-11-04-B35-DF-224	11/15/2004 14:45	Toluene	ND	1	U	SW8260B	µg/L
B-35	TEAD-11-04-B35-DF-224	11/15/2004 14:45	Trichloroethene (TCE)	5.6	1		SW8260B	µg/L
B-35	TEAD-11-04-B35-DF-224	11/15/2004 14:45	Vinyl Chloride	ND	2	U	SW8260B	µg/L
B-35	TEAD-11-04-B35-DF-224	11/15/2004 14:45	Xylenes	ND	1	U	SW8260B	µg/L
B-36	TEAD-11-04-B36-DF-234	11/22/2004 11:30	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
B-36	TEAD-11-04-B36-DF-234	11/22/2004 11:30	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
B-36	TEAD-11-04-B36-DF-234	11/22/2004 11:30	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
B-36	TEAD-11-04-B36-DF-234	11/22/2004 11:30	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
B-36	TEAD-11-04-B36-DF-234	11/22/2004 11:30	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
B-36	TEAD-11-04-B36-DF-234	11/22/2004 11:30	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
B-36	TEAD-11-04-B36-DF-234	11/22/2004 11:30	1,2 Dicholorethane	ND	1	U	SW8260B	µg/L
B-36	TEAD-11-04-B36-DF-234	11/22/2004 11:30	Benzene	ND	1	U	SW8260B	µg/L
B-36	TEAD-11-04-B36-DF-234	11/22/2004 11:30	Carbon Tetrachloride	ND	1	U	SW8260B	µg/L
B-36	TEAD-11-04-B36-DF-234	11/22/2004 11:30	Chloroethane	ND	1	U	SW8260B	µg/L
B-36	TEAD-11-04-B36-DF-234	11/22/2004 11:30	Chloroform	ND	1	U	SW8260B	µg/L
B-36	TEAD-11-04-B36-DF-234	11/22/2004 11:30	Ethylbenzene	ND	1	U	SW8260B	µg/L
B-36	TEAD-11-04-B36-DF-234	11/22/2004 11:30	Methylene Chloride	ND	5	U	SW8260B	µg/L
B-36	TEAD-11-04-B36-DF-234	11/22/2004 11:30	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
B-36	TEAD-11-04-B36-DF-234	11/22/2004 11:30	Toluene	ND	1	U	SW8260B	µg/L
B-36	TEAD-11-04-B36-DF-234	11/22/2004 11:30	Trichloroethene (TCE)	ND	1	U	SW8260B	µg/L
B-36	TEAD-11-04-B36-DF-234	11/22/2004 11:30	Vinyl Chloride	ND	2	U	SW8260B	µg/L
B-36	TEAD-11-04-B36-DF-234	11/22/2004 11:30	Xylenes	ND	1	U	SW8260B	µg/L
B-37	TEAD-11-04-B37-DF-201	11/17/2004 11:15	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
B-37	TEAD-11-04-B37-DF-201	11/17/2004 11:15	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
B-37	TEAD-11-04-B37-DF-201	11/17/2004 11:15	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
B-37	TEAD-11-04-B37-DF-201	11/17/2004 11:15	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
B-37	TEAD-11-04-B37-DF-201	11/17/2004 11:15	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
B-37	TEAD-11-04-B37-DF-201	11/17/2004 11:15	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L

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WELL ID	FIELD SAMPLE ID	SAMPLING DATE	ANALYTE	RESULT	PQL	QUALIFER	METHOD	UNITS
B-37	TEAD-11-04-B37-DF-201	11/17/2004 11:15	1,2 Dichlorethane	ND	1	U	SW8260B	µg/L
B-37	TEAD-11-04-B37-DF-201	11/17/2004 11:15	Benzene	ND	1	U	SW8260B	µg/L
B-37	TEAD-11-04-B37-DF-201	11/17/2004 11:15	Carbon Tetrachloride	ND	1	UJ	SW8260B	µg/L
B-37	TEAD-11-04-B37-DF-201	11/17/2004 11:15	Chloroethane	ND	1	U	SW8260B	µg/L
B-37	TEAD-11-04-B37-DF-201	11/17/2004 11:15	Chloroform	ND	1	U	SW8260B	µg/L
B-37	TEAD-11-04-B37-DF-201	11/17/2004 11:15	Ethylbenzene	ND	1	U	SW8260B	µg/L
B-37	TEAD-11-04-B37-DF-201	11/17/2004 11:15	Methylene Chloride	ND	5	U	SW8260B	µg/L
B-37	TEAD-11-04-B37-DF-201	11/17/2004 11:15	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
B-37	TEAD-11-04-B37-DF-201	11/17/2004 11:15	Toluene	ND	1	U	SW8260B	µg/L
B-37	TEAD-11-04-B37-DF-201	11/17/2004 11:15	Trichloroethene (TCE)	3.5	1		SW8260B	µg/L
B-37	TEAD-11-04-B37-DF-201	11/17/2004 11:15	Vinyl Chloride	ND	2	U	SW8260B	µg/L
B-37	TEAD-11-04-B37-DF-201	11/17/2004 11:15	Xylenes	ND	1	U	SW8260B	µg/L
B-40	TEAD-11-04-B40-DF-182	11/17/2004 10:55	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
B-40	TEAD-11-04-B40-DF-182	11/17/2004 10:55	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
B-40	TEAD-11-04-B40-DF-182	11/17/2004 10:55	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
B-40	TEAD-11-04-B40-DF-182	11/17/2004 10:55	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
B-40	TEAD-11-04-B40-DF-182	11/17/2004 10:55	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
B-40	TEAD-11-04-B40-DF-182	11/17/2004 10:55	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
B-40	TEAD-11-04-B40-DF-182	11/17/2004 10:55	1,2 Dichlorethane	ND	1	U	SW8260B	µg/L
B-40	TEAD-11-04-B40-DF-182	11/17/2004 10:55	Benzene	ND	1	U	SW8260B	µg/L
B-40	TEAD-11-04-B40-DF-182	11/17/2004 10:55	Carbon Tetrachloride	ND	1	UJ	SW8260B	µg/L
B-40	TEAD-11-04-B40-DF-182	11/17/2004 10:55	Chloroethane	ND	1	U	SW8260B	µg/L
B-40	TEAD-11-04-B40-DF-182	11/17/2004 10:55	Chloroform	ND	1	U	SW8260B	µg/L
B-40	TEAD-11-04-B40-DF-182	11/17/2004 10:55	Ethylbenzene	ND	1	U	SW8260B	µg/L
B-40	TEAD-11-04-B40-DF-182	11/17/2004 10:55	Methylene Chloride	ND	5	U	SW8260B	µg/L
B-40	TEAD-11-04-B40-DF-182	11/17/2004 10:55	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
B-40	TEAD-11-04-B40-DF-182	11/17/2004 10:55	Toluene	ND	1	U	SW8260B	µg/L
B-40	TEAD-11-04-B40-DF-182	11/17/2004 10:55	Trichloroethene (TCE)	5.8	1		SW8260B	µg/L
B-40	TEAD-11-04-B40-DF-182	11/17/2004 10:55	Vinyl Chloride	ND	2	U	SW8260B	µg/L
B-40	TEAD-11-04-B40-DF-182	11/17/2004 10:55	Xylenes	ND	1	U	SW8260B	µg/L
B-50	TEAD-11-04-B50-DF-245	11/17/2004 10:40	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
B-50	TEAD-11-04-B50-DF-245	11/17/2004 10:40	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
B-50	TEAD-11-04-B50-DF-245	11/17/2004 10:40	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
B-50	TEAD-11-04-B50-DF-245	11/17/2004 10:40	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L

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WELL ID	FIELD SAMPLE ID	SAMPLING DATE	ANALYTE	RESULT	PQL	QUALIFER	METHOD	UNITS
B-50	TEAD-11-04-B50-DF-245	11/17/2004 10:40	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
B-50	TEAD-11-04-B50-DF-245	11/17/2004 10:40	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
B-50	TEAD-11-04-B50-DF-245	11/17/2004 10:40	1,2 Dichloroethane	ND	1	U	SW8260B	µg/L
B-50	TEAD-11-04-B50-DF-245	11/17/2004 10:40	Benzene	ND	1	U	SW8260B	µg/L
B-50	TEAD-11-04-B50-DF-245	11/17/2004 10:40	Carbon Tetrachloride	ND	1	UJ	SW8260B	µg/L
B-50	TEAD-11-04-B50-DF-245	11/17/2004 10:40	Chloroethane	ND	1	U	SW8260B	µg/L
B-50	TEAD-11-04-B50-DF-245	11/17/2004 10:40	Chloroform	ND	1	U	SW8260B	µg/L
B-50	TEAD-11-04-B50-DF-245	11/17/2004 10:40	Ethylbenzene	ND	1	U	SW8260B	µg/L
B-50	TEAD-11-04-B50-DF-245	11/17/2004 10:40	Methylene Chloride	ND	5	U	SW8260B	µg/L
B-50	TEAD-11-04-B50-DF-245	11/17/2004 10:40	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
B-50	TEAD-11-04-B50-DF-245	11/17/2004 10:40	Toluene	ND	1	U	SW8260B	µg/L
B-50	TEAD-11-04-B50-DF-245	11/17/2004 10:40	Trichloroethene (TCE)	0.22	1	J / TR	SW8260B	µg/L
B-50	TEAD-11-04-B50-DF-245	11/17/2004 10:40	Vinyl Chloride	ND	2	U	SW8260B	µg/L
B-50	TEAD-11-04-B50-DF-245	11/17/2004 10:40	Xylenes	ND	1	U	SW8260B	µg/L
B-54	TEAD-11-04-B54-DF-362	11/17/2004 14:30	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
B-54	TEAD-11-04-B54-DF-362	11/17/2004 14:30	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
B-54	TEAD-11-04-B54-DF-362	11/17/2004 14:30	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
B-54	TEAD-11-04-B54-DF-362	11/17/2004 14:30	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
B-54	TEAD-11-04-B54-DF-362	11/17/2004 14:30	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
B-54	TEAD-11-04-B54-DF-362	11/17/2004 14:30	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
B-54	TEAD-11-04-B54-DF-362	11/17/2004 14:30	1,2 Dichloroethane	ND	1	U	SW8260B	µg/L
B-54	TEAD-11-04-B54-DF-362	11/17/2004 14:30	Benzene	ND	1	U	SW8260B	µg/L
B-54	TEAD-11-04-B54-DF-362	11/17/2004 14:30	Carbon Tetrachloride	6.5	1	J	SW8260B	µg/L
B-54	TEAD-11-04-B54-DF-362	11/17/2004 14:30	Chloroethane	ND	1	U	SW8260B	µg/L
B-54	TEAD-11-04-B54-DF-362	11/17/2004 14:30	Chloroform		1	1	SW8260B	µg/L
B-54	TEAD-11-04-B54-DF-362	11/17/2004 14:30	Ethylbenzene	ND	1	U	SW8260B	µg/L
B-54	TEAD-11-04-B54-DF-362	11/17/2004 14:30	Methylene Chloride	ND	5	U	SW8260B	µg/L
B-54	TEAD-11-04-B54-DF-362	11/17/2004 14:30	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
B-54	TEAD-11-04-B54-DF-362	11/17/2004 14:30	Toluene	ND	1	U	SW8260B	µg/L
B-54	TEAD-11-04-B54-DF-362	11/17/2004 14:30	Trichloroethene (TCE)	16	1		SW8260B	µg/L
B-54	TEAD-11-04-B54-DF-362	11/17/2004 14:30	Vinyl Chloride	ND	2	U	SW8260B	µg/L
B-54	TEAD-11-04-B54-DF-362	11/17/2004 14:30	Xylenes	ND	1	U	SW8260B	µg/L
B-56	TEAD-11-04-B56-DF-662	11/22/2004 12:20	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
B-56	TEAD-11-04-B56-DF-662	11/22/2004 12:20	1,1 - Dichloroethane	0.59	1	J / TR	SW8260B	µg/L

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WELL ID	FIELD SAMPLE ID	SAMPLING DATE	ANALYTE	RESULT	PQL	QUALIFER	METHOD	UNITS
B-56	TEAD-11-04-B56-DF-662	11/22/2004 12:20	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
B-56	TEAD-11-04-B56-DF-662	11/22/2004 12:20	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
B-56	TEAD-11-04-B56-DF-662	11/22/2004 12:20	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
B-56	TEAD-11-04-B56-DF-662	11/22/2004 12:20	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
B-56	TEAD-11-04-B56-DF-662	11/22/2004 12:20	1,2 Dicholorethane	ND	1	U	SW8260B	µg/L
B-56	TEAD-11-04-B56-DF-662	11/22/2004 12:20	Benzene	ND	1	U	SW8260B	µg/L
B-56	TEAD-11-04-B56-DF-662	11/22/2004 12:20	Carbon Tetrachloride	ND	1	U	SW8260B	µg/L
B-56	TEAD-11-04-B56-DF-662	11/22/2004 12:20	Chloroethane	ND	1	U	SW8260B	µg/L
B-56	TEAD-11-04-B56-DF-662	11/22/2004 12:20	Chloroform	ND	1	U	SW8260B	µg/L
B-56	TEAD-11-04-B56-DF-662	11/22/2004 12:20	Ethylbenzene	ND	1	U	SW8260B	µg/L
B-56	TEAD-11-04-B56-DF-662	11/22/2004 12:20	Methylene Chloride	ND	5	U	SW8260B	µg/L
B-56	TEAD-11-04-B56-DF-662	11/22/2004 12:20	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
B-56	TEAD-11-04-B56-DF-662	11/22/2004 12:20	Toluene	ND	1	U	SW8260B	µg/L
B-56	TEAD-11-04-B56-DF-662	11/22/2004 12:20	Trichloroethene (TCE)	3.1	1		SW8260B	µg/L
B-56	TEAD-11-04-B56-DF-662	11/22/2004 12:20	Vinyl Chloride	ND	2	U	SW8260B	µg/L
B-56	TEAD-11-04-B56-DF-662	11/22/2004 12:20	Xylenes	ND	1	U	SW8260B	µg/L
B-59	TEAD-11-04-B59-DF-695	11/18/2004 14:00	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
B-59	TEAD-11-04-B59-DF-695	11/18/2004 14:00	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
B-59	TEAD-11-04-B59-DF-695	11/18/2004 14:00	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
B-59	TEAD-11-04-B59-DF-695	11/18/2004 14:00	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
B-59	TEAD-11-04-B59-DF-695	11/18/2004 14:00	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
B-59	TEAD-11-04-B59-DF-695	11/18/2004 14:00	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
B-59	TEAD-11-04-B59-DF-695	11/18/2004 14:00	1,2 Dicholorethane	ND	1	U	SW8260B	µg/L
B-59	TEAD-11-04-B59-DF-695	11/18/2004 14:00	Benzene	ND	1	U	SW8260B	µg/L
B-59	TEAD-11-04-B59-DF-695	11/18/2004 14:00	Carbon Tetrachloride	ND	1	U	SW8260B	µg/L
B-59	TEAD-11-04-B59-DF-695	11/18/2004 14:00	Chloroethane	ND	1	U	SW8260B	µg/L
B-59	TEAD-11-04-B59-DF-695	11/18/2004 14:00	Chloroform	ND	1	U	SW8260B	µg/L
B-59	TEAD-11-04-B59-DF-695	11/18/2004 14:00	Ethylbenzene	ND	1	U	SW8260B	µg/L
B-59	TEAD-11-04-B59-DF-695	11/18/2004 14:00	Methylene Chloride	ND	5	U	SW8260B	µg/L
B-59	TEAD-11-04-B59-DF-695	11/18/2004 14:00	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
B-59	TEAD-11-04-B59-DF-695	11/18/2004 14:00	Toluene	ND	1	U	SW8260B	µg/L
B-59	TEAD-11-04-B59-DF-695	11/18/2004 14:00	Trichloroethene (TCE)	0.63	1	J / TR	SW8260B	µg/L
B-59	TEAD-11-04-B59-DF-695	11/18/2004 14:00	Vinyl Chloride	ND	2	U	SW8260B	µg/L
B-59	TEAD-11-04-B59-DF-695	11/18/2004 14:00	Xylenes	ND	1	U	SW8260B	µg/L

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WELL ID	FIELD SAMPLE ID	SAMPLING DATE	ANALYTE	RESULT	PQL	QUALIFER	METHOD	UNITS
B-61	TEAD-11-04-B61-DF-455	11/18/2004 13:30	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
B-61	TEAD-11-04-B61-DF-455	11/18/2004 13:30	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
B-61	TEAD-11-04-B61-DF-455	11/18/2004 13:30	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
B-61	TEAD-11-04-B61-DF-455	11/18/2004 13:30	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
B-61	TEAD-11-04-B61-DF-455	11/18/2004 13:30	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
B-61	TEAD-11-04-B61-DF-455	11/18/2004 13:30	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
B-61	TEAD-11-04-B61-DF-455	11/18/2004 13:30	1,2 Dicholorethane	ND	1	U	SW8260B	µg/L
B-61	TEAD-11-04-B61-DF-455	11/18/2004 13:30	Benzene	ND	1	U	SW8260B	µg/L
B-61	TEAD-11-04-B61-DF-455	11/18/2004 13:30	Carbon Tetrachloride	ND	1	U	SW8260B	µg/L
B-61	TEAD-11-04-B61-DF-455	11/18/2004 13:30	Chloroethane	ND	1	U	SW8260B	µg/L
B-61	TEAD-11-04-B61-DF-455	11/18/2004 13:30	Chloroform	ND	1	U	SW8260B	µg/L
B-61	TEAD-11-04-B61-DF-455	11/18/2004 13:30	Ethylbenzene	ND	1	U	SW8260B	µg/L
B-61	TEAD-11-04-B61-DF-455	11/18/2004 13:30	Methylene Chloride	ND	5	U	SW8260B	µg/L
B-61	TEAD-11-04-B61-DF-455	11/18/2004 13:30	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
B-61	TEAD-11-04-B61-DF-455	11/18/2004 13:30	Toluene	ND	1	U	SW8260B	µg/L
B-61	TEAD-11-04-B61-DF-455	11/18/2004 13:30	Trichloroethene (TCE)	ND	1	U	SW8260B	µg/L
B-61	TEAD-11-04-B61-DF-455	11/18/2004 13:30	Vinyl Chloride	ND	2	U	SW8260B	µg/L
B-61	TEAD-11-04-B61-DF-455	11/18/2004 13:30	Xylenes	ND	1	U	SW8260B	µg/L
B-62	TEAD-11-04-B62-DF-279	11/18/2004 13:50	1,1 - Dichloroethane	0.31	1	J / TR	SW8260B	µg/L
B-62	TEAD-11-04-B62-DF-279	11/18/2004 13:50	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
B-62	TEAD-11-04-B62-DF-279	11/18/2004 13:50	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
B-62	TEAD-11-04-B62-DF-279	11/18/2004 13:50	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
B-62	TEAD-11-04-B62-DF-279	11/18/2004 13:50	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
B-62	TEAD-11-04-B62-DF-279	11/18/2004 13:50	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
B-62	TEAD-11-04-B62-DF-279	11/18/2004 13:50	1,2 Dicholorethane	ND	1	U	SW8260B	µg/L
B-62	TEAD-11-04-B62-DF-279	11/18/2004 13:50	Benzene	ND	1	U	SW8260B	µg/L
B-62	TEAD-11-04-B62-DF-279	11/18/2004 13:50	Carbon Tetrachloride	0.53	1	J / TR	SW8260B	µg/L
B-62	TEAD-11-04-B62-DF-279	11/18/2004 13:50	Chloroethane	ND	1	U	SW8260B	µg/L
B-62	TEAD-11-04-B62-DF-279	11/18/2004 13:50	Chloroform	ND	1	U	SW8260B	µg/L
B-62	TEAD-11-04-B62-DF-279	11/18/2004 13:50	Ethylbenzene	ND	1	U	SW8260B	µg/L
B-62	TEAD-11-04-B62-DF-279	11/18/2004 13:50	Methylene Chloride	ND	5	U	SW8260B	µg/L
B-62	TEAD-11-04-B62-DF-279	11/18/2004 13:50	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
B-62	TEAD-11-04-B62-DF-279	11/18/2004 13:50	Toluene	ND	1	U	SW8260B	µg/L
B-62	TEAD-11-04-B62-DF-279	11/18/2004 13:50	Trichloroethene (TCE)	16	1		SW8260B	µg/L

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WELL ID	FIELD SAMPLE ID	SAMPLING DATE	ANALYTE	RESULT	PQL	QUALIFER	METHOD	UNITS
B-62	TEAD-11-04-B62-DF-279	11/18/2004 13:50	Vinyl Chloride	ND	2	U	SW8260B	µg/L
B-62	TEAD-11-04-B62-DF-279	11/18/2004 13:50	Xylenes	ND	1	U	SW8260B	µg/L
C-03	TEAD-11-04-C03-DF-263	11/17/2004 11:45	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
C-03	TEAD-11-04-C03-DF-263	11/17/2004 11:45	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
C-03	TEAD-11-04-C03-DF-263	11/17/2004 11:45	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
C-03	TEAD-11-04-C03-DF-263	11/17/2004 11:45	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
C-03	TEAD-11-04-C03-DF-263	11/17/2004 11:45	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
C-03	TEAD-11-04-C03-DF-263	11/17/2004 11:45	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
C-03	TEAD-11-04-C03-DF-263	11/17/2004 11:45	1,2 Dicholorethane	ND	1	U	SW8260B	µg/L
C-03	TEAD-11-04-C03-DF-263	11/17/2004 11:45	Benzene	ND	1	U	SW8260B	µg/L
C-03	TEAD-11-04-C03-DF-263	11/17/2004 11:45	Carbon Tetrachloride	ND	1	UJ	SW8260B	µg/L
C-03	TEAD-11-04-C03-DF-263	11/17/2004 11:45	Chloroethane	ND	1	U	SW8260B	µg/L
C-03	TEAD-11-04-C03-DF-263	11/17/2004 11:45	Chloroform	ND	1	U	SW8260B	µg/L
C-03	TEAD-11-04-C03-DF-263	11/17/2004 11:45	Ethylbenzene	ND	1	U	SW8260B	µg/L
C-03	TEAD-11-04-C03-DF-263	11/17/2004 11:45	Methylene Chloride	ND	5	U	SW8260B	µg/L
C-03	TEAD-11-04-C03-DF-263	11/17/2004 11:45	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
C-03	TEAD-11-04-C03-DF-263	11/17/2004 11:45	Toluene	ND	1	U	SW8260B	µg/L
C-03	TEAD-11-04-C03-DF-263	11/17/2004 11:45	Trichloroethene (TCE)	ND	1	U	SW8260B	µg/L
C-03	TEAD-11-04-C03-DF-263	11/17/2004 11:45	Vinyl Chloride	ND	2	U	SW8260B	µg/L
C-03	TEAD-11-04-C03-DF-263	11/17/2004 11:45	Xylenes	ND	1	U	SW8260B	µg/L
C-04	TEAD-11-04-C04-DF-240	11/17/2004 12:00	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
C-04	TEAD-11-04-C04-DF-240	11/17/2004 12:00	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
C-04	TEAD-11-04-C04-DF-240	11/17/2004 12:00	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
C-04	TEAD-11-04-C04-DF-240	11/17/2004 12:00	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
C-04	TEAD-11-04-C04-DF-240	11/17/2004 12:00	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
C-04	TEAD-11-04-C04-DF-240	11/17/2004 12:00	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
C-04	TEAD-11-04-C04-DF-240	11/17/2004 12:00	1,2 Dicholorethane	ND	1	U	SW8260B	µg/L
C-04	TEAD-11-04-C04-DF-240	11/17/2004 12:00	Benzene	ND	1	U	SW8260B	µg/L
C-04	TEAD-11-04-C04-DF-240	11/17/2004 12:00	Carbon Tetrachloride	ND	1	UJ	SW8260B	µg/L
C-04	TEAD-11-04-C04-DF-240	11/17/2004 12:00	Chloroethane	ND	1	U	SW8260B	µg/L
C-04	TEAD-11-04-C04-DF-240	11/17/2004 12:00	Chloroform	ND	1	U	SW8260B	µg/L
C-04	TEAD-11-04-C04-DF-240	11/17/2004 12:00	Ethylbenzene	ND	1	U	SW8260B	µg/L
C-04	TEAD-11-04-C04-DF-240	11/17/2004 12:00	Methylene Chloride	ND	5	U	SW8260B	µg/L
C-04	TEAD-11-04-C04-DF-240	11/17/2004 12:00	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L

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WELL ID	FIELD SAMPLE ID	SAMPLING DATE	ANALYTE	RESULT	PQL	QUALIFER	METHOD	UNITS
C-04	TEAD-11-04-C04-DF-240	11/17/2004 12:00	Toluene	ND	1	U	SW8260B	µg/L
C-04	TEAD-11-04-C04-DF-240	11/17/2004 12:00	Trichloroethene (TCE)	ND	1	U	SW8260B	µg/L
C-04	TEAD-11-04-C04-DF-240	11/17/2004 12:00	Vinyl Chloride	ND	2	U	SW8260B	µg/L
C-04	TEAD-11-04-C04-DF-240	11/17/2004 12:00	Xylenes	ND	1	U	SW8260B	µg/L
C-08	TEAD-11-04-C08-DF-340	11/18/2004 10:40	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
C-08	TEAD-11-04-C08-DF-340	11/18/2004 10:40	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
C-08	TEAD-11-04-C08-DF-340	11/18/2004 10:40	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
C-08	TEAD-11-04-C08-DF-340	11/18/2004 10:40	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
C-08	TEAD-11-04-C08-DF-340	11/18/2004 10:40	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
C-08	TEAD-11-04-C08-DF-340	11/18/2004 10:40	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
C-08	TEAD-11-04-C08-DF-340	11/18/2004 10:40	1,2 Dichloroethane	ND	1	U	SW8260B	µg/L
C-08	TEAD-11-04-C08-DF-340	11/18/2004 10:40	Benzene	ND	1	U	SW8260B	µg/L
C-08	TEAD-11-04-C08-DF-340	11/18/2004 10:40	Carbon Tetrachloride	0.74	1	J / TR	SW8260B	µg/L
C-08	TEAD-11-04-C08-DF-340	11/18/2004 10:40	Chloroethane	ND	1	U	SW8260B	µg/L
C-08	TEAD-11-04-C08-DF-340	11/18/2004 10:40	Chloroform	ND	1	U	SW8260B	µg/L
C-08	TEAD-11-04-C08-DF-340	11/18/2004 10:40	Ethylbenzene	ND	1	U	SW8260B	µg/L
C-08	TEAD-11-04-C08-DF-340	11/18/2004 10:40	Methylene Chloride	ND	5	U	SW8260B	µg/L
C-08	TEAD-11-04-C08-DF-340	11/18/2004 10:40	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
C-08	TEAD-11-04-C08-DF-340	11/18/2004 10:40	Toluene	ND	1	U	SW8260B	µg/L
C-08	TEAD-11-04-C08-DF-340	11/18/2004 10:40	Trichloroethene (TCE)	4.6	1		SW8260B	µg/L
C-08	TEAD-11-04-C08-DF-340	11/18/2004 10:40	Vinyl Chloride	ND	2	U	SW8260B	µg/L
C-08	TEAD-11-04-C08-DF-340	11/18/2004 10:40	Xylenes	ND	1	U	SW8260B	µg/L
C-09	TEAD-11-04-C09-DF-364	11/15/2004 13:30	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
C-09	TEAD-11-04-C09-DF-364	11/15/2004 13:30	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
C-09	TEAD-11-04-C09-DF-364	11/15/2004 13:30	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
C-09	TEAD-11-04-C09-DF-364	11/15/2004 13:30	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
C-09	TEAD-11-04-C09-DF-364	11/15/2004 13:30	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
C-09	TEAD-11-04-C09-DF-364	11/15/2004 13:30	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
C-09	TEAD-11-04-C09-DF-364	11/15/2004 13:30	1,2 Dichloroethane	ND	1	U	SW8260B	µg/L
C-09	TEAD-11-04-C-09-KA	11/16/2004 12:15	1,4-Dioxane	0.74	1	J / TR	SW8270SIM	µg/L
C-09	TEAD-11-04-C09-DF-364	11/15/2004 13:30	Benzene	ND	1	U	SW8260B	µg/L
C-09	TEAD-11-04-C09-DF-364	11/15/2004 13:30	Carbon Tetrachloride	3.2	1		SW8260B	µg/L
C-09	TEAD-11-04-C09-DF-364	11/15/2004 13:30	Chloroethane	ND	1	U	SW8260B	µg/L
C-09	TEAD-11-04-C09-DF-364	11/15/2004 13:30	Chloroform	1.4	1		SW8260B	µg/L

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WELL ID	FIELD SAMPLE ID	SAMPLING DATE	ANALYTE	RESULT	PQL	QUALIFER	METHOD	UNITS
C-09	TEAD-11-04-C09-DF-364	11/15/2004 13:30	Ethylbenzene	ND	1	U	SW8260B	µg/L
C-09	TEAD-11-04-C09-DF-364	11/15/2004 13:30	Methylene Chloride	ND	5	U	SW8260B	µg/L
C-09	TEAD-11-04-C09-DF-364	11/15/2004 13:30	Tetrachloroethane (PCE)	0.21	1	J / TR	SW8260B	µg/L
C-09	TEAD-11-04-C09-DF-364	11/15/2004 13:30	Toluene	ND	1	U	SW8260B	µg/L
C-09	TEAD-11-04-C09-DF-364	11/15/2004 13:30	Trichloroethene (TCE)	50	10		SW8260B	µg/L
C-09	TEAD-11-04-C09-DF-364	11/15/2004 13:30	Vinyl Chloride	ND	2	U	SW8260B	µg/L
C-09	TEAD-11-04-C09-DF-364	11/15/2004 13:30	Xylenes	ND	1	U	SW8260B	µg/L
C-10	TEAD-11-04-C10-DF-270	11/18/2004 10:10	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
C-10	TEAD-11-04-C10-DF-270	11/18/2004 10:10	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
C-10	TEAD-11-04-C10-DF-270	11/18/2004 10:10	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
C-10	TEAD-11-04-C10-DF-270	11/18/2004 10:10	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
C-10	TEAD-11-04-C10-DF-270	11/18/2004 10:10	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
C-10	TEAD-11-04-C10-DF-270	11/18/2004 10:10	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
C-10	TEAD-11-04-C10-DF-270	11/18/2004 10:10	1,2 Dicholorethane	ND	1	U	SW8260B	µg/L
C-10	TEAD-11-04-C10-DF-270	11/18/2004 10:10	Benzene	ND	1	U	SW8260B	µg/L
C-10	TEAD-11-04-C10-DF-270	11/18/2004 10:10	Carbon Tetrachloride	2.1	1		SW8260B	µg/L
C-10	TEAD-11-04-C10-DF-270	11/18/2004 10:10	Chloroethane	ND	1	U	SW8260B	µg/L
C-10	TEAD-11-04-C10-DF-270	11/18/2004 10:10	Chloroform	0.23	1	J / TR	SW8260B	µg/L
C-10	TEAD-11-04-C10-DF-270	11/18/2004 10:10	Ethylbenzene	ND	1	U	SW8260B	µg/L
C-10	TEAD-11-04-C10-DF-270	11/18/2004 10:10	Methylene Chloride	ND	5	U	SW8260B	µg/L
C-10	TEAD-11-04-C10-DF-270	11/18/2004 10:10	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
C-10	TEAD-11-04-C10-DF-270	11/18/2004 10:10	Toluene	ND	1	U	SW8260B	µg/L
C-10	TEAD-11-04-C10-DF-270	11/18/2004 10:10	Trichloroethene (TCE)	160	25		SW8260B	µg/L
C-10	TEAD-11-04-C10-DF-270	11/18/2004 10:10	Vinyl Chloride	ND	2	U	SW8260B	µg/L
C-10	TEAD-11-04-C10-DF-270	11/18/2004 10:10	Xylenes	ND	1	U	SW8260B	µg/L
C-11	TEAD-11-04-C11-DF-301	11/18/2004 10:25	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
C-11	TEAD-11-04-C11-DF-301	11/18/2004 10:25	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
C-11	TEAD-11-04-C11-DF-301	11/18/2004 10:25	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
C-11	TEAD-11-04-C11-DF-301	11/18/2004 10:25	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
C-11	TEAD-11-04-C11-DF-301	11/18/2004 10:25	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
C-11	TEAD-11-04-C11-DF-301	11/18/2004 10:25	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
C-11	TEAD-11-04-C11-DF-301	11/18/2004 10:25	1,2 Dicholorethane	ND	1	U	SW8260B	µg/L
C-11	TEAD-11-04-C11-DF-301	11/18/2004 10:25	Benzene	ND	1	U	SW8260B	µg/L
C-11	TEAD-11-04-C11-DF-301	11/18/2004 10:25	Carbon Tetrachloride	1.7	1		SW8260B	µg/L

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WELL ID	FIELD SAMPLE ID	SAMPLING DATE	ANALYTE	RESULT	PQL	QUALIFER	METHOD	UNITS
C-11	TEAD-11-04-C11-DF-301	11/18/2004 10:25	Chloroethane	ND	1	U	SW8260B	µg/L
C-11	TEAD-11-04-C11-DF-301	11/18/2004 10:25	Chloroform	ND	1	U	SW8260B	µg/L
C-11	TEAD-11-04-C11-DF-301	11/18/2004 10:25	Ethylbenzene	ND	1	U	SW8260B	µg/L
C-11	TEAD-11-04-C11-DF-301	11/18/2004 10:25	Methylene Chloride	ND	5	U	SW8260B	µg/L
C-11	TEAD-11-04-C11-DF-301	11/18/2004 10:25	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
C-11	TEAD-11-04-C11-DF-301	11/18/2004 10:25	Toluene	ND	1	U	SW8260B	µg/L
C-11	TEAD-11-04-C11-DF-301	11/18/2004 10:25	Trichloroethene (TCE)	33	1		SW8260B	µg/L
C-11	TEAD-11-04-C11-DF-301	11/18/2004 10:25	Vinyl Chloride	ND	2	U	SW8260B	µg/L
C-11	TEAD-11-04-C11-DF-301	11/18/2004 10:25	Xylenes	ND	1	U	SW8260B	µg/L
C-12	TEAD-11-04-C12-DF-305	11/23/2004 10:00	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
C-12	TEAD-11-04-C12-DF-305	11/23/2004 10:00	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
C-12	TEAD-11-04-C12-DF-305	11/23/2004 10:00	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
C-12	TEAD-11-04-C12-DF-305	11/23/2004 10:00	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
C-12	TEAD-11-04-C12-DF-305	11/23/2004 10:00	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
C-12	TEAD-11-04-C12-DF-305	11/23/2004 10:00	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
C-12	TEAD-11-04-C12-DF-305	11/23/2004 10:00	1,2 Dicholorethane	ND	1	U	SW8260B	µg/L
C-12	TEAD-11-04-C12-DF-305	11/23/2004 10:00	Benzene	ND	1	U	SW8260B	µg/L
C-12	TEAD-11-04-C12-DF-305	11/23/2004 10:00	Carbon Tetrachloride	0.46	1	J / TR	SW8260B	µg/L
C-12	TEAD-11-04-C12-DF-305	11/23/2004 10:00	Chloroethane	ND	1	U	SW8260B	µg/L
C-12	TEAD-11-04-C12-DF-305	11/23/2004 10:00	Chloroform	ND	1	U	SW8260B	µg/L
C-12	TEAD-11-04-C12-DF-305	11/23/2004 10:00	Ethylbenzene	ND	1	U	SW8260B	µg/L
C-12	TEAD-11-04-C12-DF-305	11/23/2004 10:00	Methylene Chloride	ND	5	U	SW8260B	µg/L
C-12	TEAD-11-04-C12-DF-305	11/23/2004 10:00	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
C-12	TEAD-11-04-C12-DF-305	11/23/2004 10:00	Toluene	ND	1	U	SW8260B	µg/L
C-12	TEAD-11-04-C12-DF-305	11/23/2004 10:00	Trichloroethene (TCE)	100	25		SW8260B	µg/L
C-12	TEAD-11-04-C12-DF-305	11/23/2004 10:00	Vinyl Chloride	ND	2	U	SW8260B	µg/L
C-12	TEAD-11-04-C12-DF-305	11/23/2004 10:00	Xylenes	ND	1	U	SW8260B	µg/L
C-13	TEAD-11-04-C13-DF-311	11/17/2004 13:50	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
C-13	TEAD-11-04-C13-DF-311	11/17/2004 13:50	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
C-13	TEAD-11-04-C13-DF-311	11/17/2004 13:50	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
C-13	TEAD-11-04-C13-DF-311	11/17/2004 13:50	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
C-13	TEAD-11-04-C13-DF-311	11/17/2004 13:50	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
C-13	TEAD-11-04-C13-DF-311	11/17/2004 13:50	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
C-13	TEAD-11-04-C13-DF-311	11/17/2004 13:50	1,2 Dicholorethane	ND	1	U	SW8260B	µg/L

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WELL ID	FIELD SAMPLE ID	SAMPLING DATE	ANALYTE	RESULT	PQL	QUALIFER	METHOD	UNITS
C-13	TEAD-11-04-C13-DF-311	11/17/2004 13:50	Benzene	ND	1	U	SW8260B	µg/L
C-13	TEAD-11-04-C13-DF-311	11/17/2004 13:50	Carbon Tetrachloride	0.27	1	J / TR	SW8260B	µg/L
C-13	TEAD-11-04-C13-DF-311	11/17/2004 13:50	Chloroethane	ND	1	U	SW8260B	µg/L
C-13	TEAD-11-04-C13-DF-311	11/17/2004 13:50	Chloroform	ND	1	U	SW8260B	µg/L
C-13	TEAD-11-04-C13-DF-311	11/17/2004 13:50	Ethylbenzene	ND	1	U	SW8260B	µg/L
C-13	TEAD-11-04-C13-DF-311	11/17/2004 13:50	Methylene Chloride	ND	5	U	SW8260B	µg/L
C-13	TEAD-11-04-C13-DF-311	11/17/2004 13:50	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
C-13	TEAD-11-04-C13-DF-311	11/17/2004 13:50	Toluene	ND	1	U	SW8260B	µg/L
C-13	TEAD-11-04-C13-DF-311	11/17/2004 13:50	Trichloroethene (TCE)	120	10		SW8260B	µg/L
C-13	TEAD-11-04-C13-DF-311	11/17/2004 13:50	Vinyl Chloride	ND	2	U	SW8260B	µg/L
C-13	TEAD-11-04-C13-DF-311	11/17/2004 13:50	Xylenes	ND	1	U	SW8260B	µg/L
C-14	TEAD-11-04-C14-DF-275	11/18/2004 9:30	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
C-14	TEAD-11-04-C14-DF-275	11/18/2004 9:30	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
C-14	TEAD-11-04-C14-DF-275	11/18/2004 9:30	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
C-14	TEAD-11-04-C14-DF-275	11/18/2004 9:30	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
C-14	TEAD-11-04-C14-DF-275	11/18/2004 9:30	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
C-14	TEAD-11-04-C14-DF-275	11/18/2004 9:30	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
C-14	TEAD-11-04-C14-DF-275	11/18/2004 9:30	1,2 Dicholorethane	ND	1	U	SW8260B	µg/L
C-14	TEAD-11-04-C14-DF-275	11/18/2004 9:30	Benzene	ND	1	U	SW8260B	µg/L
C-14	TEAD-11-04-C14-DF-275	11/18/2004 9:30	Carbon Tetrachloride	11	1		SW8260B	µg/L
C-14	TEAD-11-04-C14-DF-275	11/18/2004 9:30	Chloroethane	ND	1	U	SW8260B	µg/L
C-14	TEAD-11-04-C14-DF-275	11/18/2004 9:30	Chloroform	0.29	1	J / TR	SW8260B	µg/L
C-14	TEAD-11-04-C14-DF-275	11/18/2004 9:30	Ethylbenzene	ND	1	U	SW8260B	µg/L
C-14	TEAD-11-04-C14-DF-275	11/18/2004 9:30	Methylene Chloride	ND	5	U	SW8260B	µg/L
C-14	TEAD-11-04-C14-DF-275	11/18/2004 9:30	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
C-14	TEAD-11-04-C14-DF-275	11/18/2004 9:30	Toluene	ND	1	U	SW8260B	µg/L
C-14	TEAD-11-04-C14-DF-275	11/18/2004 9:30	Trichloroethene (TCE)	25	1		SW8260B	µg/L
C-14	TEAD-11-04-C14-DF-275	11/18/2004 9:30	Vinyl Chloride	ND	2	U	SW8260B	µg/L
C-14	TEAD-11-04-C14-DF-275	11/18/2004 9:30	Xylenes	ND	1	U	SW8260B	µg/L
C-15	TEAD-11-04-C15-DF-349	11/17/2004 14:20	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
C-15	TEAD-11-04-C15-DF-349	11/17/2004 14:20	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
C-15	TEAD-11-04-C15-DF-349	11/17/2004 14:20	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
C-15	TEAD-11-04-C15-DF-349	11/17/2004 14:20	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
C-15	TEAD-11-04-C15-DF-349	11/17/2004 14:20	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L

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WELL ID	FIELD SAMPLE ID	SAMPLING DATE	ANALYTE	RESULT	PQL	QUALIFER	METHOD	UNITS
C-15	TEAD-11-04-C15-DF-349	11/17/2004 14:20	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
C-15	TEAD-11-04-C15-DF-349	11/17/2004 14:20	1,2 Dichlorethane	ND	1	U	SW8260B	µg/L
C-15	TEAD-11-04-C15-DF-349	11/17/2004 14:20	Benzene	ND	1	U	SW8260B	µg/L
C-15	TEAD-11-04-C15-DF-349	11/17/2004 14:20	Carbon Tetrachloride	ND	1	UJ	SW8260B	µg/L
C-15	TEAD-11-04-C15-DF-349	11/17/2004 14:20	Chloroethane	ND	1	U	SW8260B	µg/L
C-15	TEAD-11-04-C15-DF-349	11/17/2004 14:20	Chloroform	0.22	1	J / TR	SW8260B	µg/L
C-15	TEAD-11-04-C15-DF-349	11/17/2004 14:20	Ethylbenzene	ND	1	U	SW8260B	µg/L
C-15	TEAD-11-04-C15-DF-349	11/17/2004 14:20	Methylene Chloride	ND	5	U	SW8260B	µg/L
C-15	TEAD-11-04-C15-DF-349	11/17/2004 14:20	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
C-15	TEAD-11-04-C15-DF-349	11/17/2004 14:20	Toluene	ND	1	U	SW8260B	µg/L
C-15	TEAD-11-04-C15-DF-349	11/17/2004 14:20	Trichloroethene (TCE)	21	1		SW8260B	µg/L
C-15	TEAD-11-04-C15-DF-349	11/17/2004 14:20	Vinyl Chloride	ND	2	U	SW8260B	µg/L
C-15	TEAD-11-04-C15-DF-349	11/17/2004 14:20	Xylenes	ND	1	U	SW8260B	µg/L
C-17	TEAD-11-04-C17-DF-357	11/15/2004 11:20	1,1 - Dichloroethene	0.26	1	J / TR	SW8260B	µg/L
C-17	TEAD-11-04-C17-DF-357	11/15/2004 11:20	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
C-17	TEAD-11-04-C17-DF-357	11/15/2004 11:20	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
C-17	TEAD-11-04-C17-DF-357	11/15/2004 11:20	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
C-17	TEAD-11-04-C17-DF-357	11/15/2004 11:20	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
C-17	TEAD-11-04-C17-DF-357	11/15/2004 11:20	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
C-17	TEAD-11-04-C17-DF-357	11/15/2004 11:20	1,2 Dichlorethane	0.61	1	J / TR	SW8260B	µg/L
C-17	TEAD-11-04-C17-KA	11/16/2004 13:00	1,4-Dioxane		1	J	SW8270SIM	µg/L
C-17	TEAD-11-04-C17-DF-357	11/15/2004 11:20	Benzene	ND	1	U	SW8260B	µg/L
C-17	TEAD-11-04-C17-DF-357	11/15/2004 11:20	Carbon Tetrachloride	9.3	1		SW8260B	µg/L
C-17	TEAD-11-04-C17-DF-357	11/15/2004 11:20	Chloroethane	ND	1	U	SW8260B	µg/L
C-17	TEAD-11-04-C17-DF-357	11/15/2004 11:20	Chloroform	3.6	1		SW8260B	µg/L
C-17	TEAD-11-04-C17-DF-357	11/15/2004 11:20	Ethylbenzene	ND	1	U	SW8260B	µg/L
C-17	TEAD-11-04-C17-DF-357	11/15/2004 11:20	Methylene Chloride	ND	5	U	SW8260B	µg/L
C-17	TEAD-11-04-C17-DF-357	11/15/2004 11:20	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
C-17	TEAD-11-04-C17-DF-357	11/15/2004 11:20	Toluene	ND	1	U	SW8260B	µg/L
C-17	TEAD-11-04-C17-DF-357	11/15/2004 11:20	Trichloroethene (TCE)	13	1	J	SW8260B	µg/L
C-17	TEAD-11-04-C17-DF-357	11/15/2004 11:20	Vinyl Chloride	ND	2	U	SW8260B	µg/L
C-17	TEAD-11-04-C17-DF-357	11/15/2004 11:20	Xylenes	ND	1	U	SW8260B	µg/L
C-18	TEAD-11-04-C18-DF-328	11/17/2004 13:30	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
C-18	TEAD-11-04-C18-DF-328	11/17/2004 13:30	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L

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WELL ID	FIELD SAMPLE ID	SAMPLING DATE	ANALYTE	RESULT	PQL	QUALIFER	METHOD	UNITS
C-18	TEAD-11-04-C18-DF-328	11/17/2004 13:30	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
C-18	TEAD-11-04-C18-DF-328	11/17/2004 13:30	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
C-18	TEAD-11-04-C18-DF-328	11/17/2004 13:30	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
C-18	TEAD-11-04-C18-DF-328	11/17/2004 13:30	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
C-18	TEAD-11-04-C18-DF-328	11/17/2004 13:30	1,2 Dicholorethane	ND	1	U	SW8260B	µg/L
C-18	TEAD-11-04-C18-DF-328	11/17/2004 13:30	Benzene	ND	1	U	SW8260B	µg/L
C-18	TEAD-11-04-C18-DF-328	11/17/2004 13:30	Carbon Tetrachloride	ND	1	UJ	SW8260B	µg/L
C-18	TEAD-11-04-C18-DF-328	11/17/2004 13:30	Chloroethane	ND	1	U	SW8260B	µg/L
C-18	TEAD-11-04-C18-DF-328	11/17/2004 13:30	Chloroform	ND	1	U	SW8260B	µg/L
C-18	TEAD-11-04-C18-DF-328	11/17/2004 13:30	Ethylbenzene	ND	1	U	SW8260B	µg/L
C-18	TEAD-11-04-C18-DF-328	11/17/2004 13:30	Methylene Chloride	ND	5	U	SW8260B	µg/L
C-18	TEAD-11-04-C18-DF-328	11/17/2004 13:30	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
C-18	TEAD-11-04-C18-DF-328	11/17/2004 13:30	Toluene	ND	1	U	SW8260B	µg/L
C-18	TEAD-11-04-C18-DF-328	11/17/2004 13:30	Trichloroethene (TCE)	ND	1	U	SW8260B	µg/L
C-18	TEAD-11-04-C18-DF-328	11/17/2004 13:30	Vinyl Chloride	ND	2	U	SW8260B	µg/L
C-18	TEAD-11-04-C18-DF-328	11/17/2004 13:30	Xylenes	ND	1	U	SW8260B	µg/L
C-19	TEAD-11-04-C19-DF-364	11/15/2004 11:00	1,1 - Dichloroethene	2.5	1		SW8260B	µg/L
C-19	TEAD-11-04-C19-DF-364	11/15/2004 11:00	1,1 - Dichloroethane	0.21	1	J / TR	SW8260B	µg/L
C-19	TEAD-11-04-C19-DF-364	11/15/2004 11:00	1,1,1 - Trichloroethane	0.9	1	J / TR	SW8260B	µg/L
C-19	TEAD-11-04-C19-DF-364	11/15/2004 11:00	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
C-19	TEAD-11-04-C19-DF-364	11/15/2004 11:00	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
C-19	TEAD-11-04-C19-DF-364	11/15/2004 11:00	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
C-19	TEAD-11-04-C19-DF-364	11/15/2004 11:00	1,2 Dicholorethane	ND	1	U	SW8260B	µg/L
C-19	TEAD-11-04-C19-KA	11/16/2004 15:20	1,4-Dioxane	26	1	J	SW8270SIM	µg/L
C-19	TEAD-11-04-C19-DF-364	11/15/2004 11:00	Benzene	ND	1	U	SW8260B	µg/L
C-19	TEAD-11-04-C19-DF-364	11/15/2004 11:00	Carbon Tetrachloride	0.24	1	J / TR	SW8260B	µg/L
C-19	TEAD-11-04-C19-DF-364	11/15/2004 11:00	Chloroethane	ND	1	U	SW8260B	µg/L
C-19	TEAD-11-04-C19-DF-364	11/15/2004 11:00	Chloroform	0.85	1	J / TR	SW8260B	µg/L
C-19	TEAD-11-04-C19-DF-364	11/15/2004 11:00	Ethylbenzene	ND	1	U	SW8260B	µg/L
C-19	TEAD-11-04-C19-DF-364	11/15/2004 11:00	Methylene Chloride	ND	5	U	SW8260B	µg/L
C-19	TEAD-11-04-C19-DF-364	11/15/2004 11:00	Tetrachloroethane (PCE)	0.22	1	J / TR	SW8260B	µg/L
C-19	TEAD-11-04-C19-DF-364	11/15/2004 11:00	Toluene	ND	1	U	SW8260B	µg/L
C-19	TEAD-11-04-C19-DF-364	11/15/2004 11:00	Trichloroethene (TCE)	490	100		SW8260B	µg/L
C-19	TEAD-11-04-C19-DF-364	11/15/2004 11:00	Vinyl Chloride	ND	2	U	SW8260B	µg/L

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WELL ID	FIELD SAMPLE ID	SAMPLING DATE	ANALYTE	RESULT	PQL	QUALIFER	METHOD	UNITS
C-19	TEAD-11-04-C19-DF-364	11/15/2004 11:00	Xylenes	ND	1	U	SW8260B	µg/L
C-20	TEAD-11-04-C20-DF-364	11/17/2004 15:30	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
C-20	TEAD-11-04-C20-DF-364	11/17/2004 15:30	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
C-20	TEAD-11-04-C20-DF-364	11/17/2004 15:30	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
C-20	TEAD-11-04-C20-DF-364	11/17/2004 15:30	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
C-20	TEAD-11-04-C20-DF-364	11/17/2004 15:30	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
C-20	TEAD-11-04-C20-DF-364	11/17/2004 15:30	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
C-20	TEAD-11-04-C20-DF-364	11/17/2004 15:30	1,2 Dicholorethane	ND	1	U	SW8260B	µg/L
C-20	TEAD-11-04-C20-DF-364	11/17/2004 15:30	Benzene	ND	1	U	SW8260B	µg/L
C-20	TEAD-11-04-C20-DF-364	11/17/2004 15:30	Carbon Tetrachloride	4.1	1	J	SW8260B	µg/L
C-20	TEAD-11-04-C20-DF-364	11/17/2004 15:30	Chloroethane	ND	1	U	SW8260B	µg/L
C-20	TEAD-11-04-C20-DF-364	11/17/2004 15:30	Chloroform	0.49	1	J / TR	SW8260B	µg/L
C-20	TEAD-11-04-C20-DF-364	11/17/2004 15:30	Ethylbenzene	ND	1	U	SW8260B	µg/L
C-20	TEAD-11-04-C20-DF-364	11/17/2004 15:30	Methylene Chloride	ND	5	U	SW8260B	µg/L
C-20	TEAD-11-04-C20-DF-364	11/17/2004 15:30	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
C-20	TEAD-11-04-C20-DF-364	11/17/2004 15:30	Toluene	ND	1	U	SW8260B	µg/L
C-20	TEAD-11-04-C20-DF-364	11/17/2004 15:30	Trichloroethene (TCE)	ND	1	U	SW8260B	µg/L
C-20	TEAD-11-04-C20-DF-364	11/17/2004 15:30	Vinyl Chloride	ND	2	U	SW8260B	µg/L
C-20	TEAD-11-04-C20-DF-364	11/17/2004 15:30	Xylenes	ND	1	U	SW8260B	µg/L
C-21	TEAD-11-04-C2-DF-362	11/15/2004 10:30	1,1 - Dichloroethane	0.31	1	J / TR	SW8260B	µg/L
C-21	TEAD-11-04-C2-DF-362	11/15/2004 10:30	1,1 - Dichloroethene	0.46	1	J / TR	SW8260B	µg/L
C-21	TEAD-11-04-C2-DF-362	11/15/2004 10:30	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
C-21	TEAD-11-04-C2-DF-362	11/15/2004 10:30	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
C-21	TEAD-11-04-C2-DF-362	11/15/2004 10:30	1,2 Dichloroethene	3.2	1		SW8260B	µg/L
C-21	TEAD-11-04-C2-DF-362	11/15/2004 10:30	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
C-21	TEAD-11-04-C2-DF-362	11/15/2004 10:30	1,2 Dicholorethane	ND	1	U	SW8260B	µg/L
C-21	TEAD-11-04-C21-KA	11/17/2004 11:00	1,4-Dioxane	1.9	1	J	SW8270SIM	µg/L
C-21	TEAD-11-04-C2-DF-362	11/15/2004 10:30	Benzene	ND	1	U	SW8260B	µg/L
C-21	TEAD-11-04-C2-DF-362	11/15/2004 10:30	Carbon Tetrachloride	0.35	1	J / TR	SW8260B	µg/L
C-21	TEAD-11-04-C2-DF-362	11/15/2004 10:30	Chloroethane	ND	1	U	SW8260B	µg/L
C-21	TEAD-11-04-C2-DF-362	11/15/2004 10:30	Chloroform	1.1	1		SW8260B	µg/L
C-21	TEAD-11-04-C2-DF-362	11/15/2004 10:30	Ethylbenzene	ND	1	U	SW8260B	µg/L
C-21	TEAD-11-04-C2-DF-362	11/15/2004 10:30	Methylene Chloride	ND	5	U	SW8260B	µg/L
C-21	TEAD-11-04-C2-DF-362	11/15/2004 10:30	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L

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WELL ID	FIELD SAMPLE ID	SAMPLING DATE	ANALYTE	RESULT	PQL	QUALIFER	METHOD	UNITS
C-21	TEAD-11-04-C2-DF-362	11/15/2004 10:30	Toluene	ND	1	U	SW8260B	µg/L
C-21	TEAD-11-04-C2-DF-362	11/15/2004 10:30	Trichloroethene (TCE)	72	10		SW8260B	µg/L
C-21	TEAD-11-04-C2-DF-362	11/15/2004 10:30	Vinyl Chloride	ND	2	U	SW8260B	µg/L
C-21	TEAD-11-04-C2-DF-362	11/15/2004 10:30	Xylenes	ND	1	U	SW8260B	µg/L
C-25	TEAD-11-04-C25-DF-370	11/22/2004 12:45	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
C-25	TEAD-11-04-C25-DF-370	11/22/2004 12:45	1,1 - Dichloroethane	1.2	1		SW8260B	µg/L
C-25	TEAD-11-04-C25-DF-370	11/22/2004 12:45	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
C-25	TEAD-11-04-C25-DF-370	11/22/2004 12:45	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
C-25	TEAD-11-04-C25-DF-370	11/22/2004 12:45	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
C-25	TEAD-11-04-C25-DF-370	11/22/2004 12:45	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
C-25	TEAD-11-04-C25-DF-370	11/22/2004 12:45	1,2 Dicholorethane	ND	1	U	SW8260B	µg/L
C-25	TEAD-11-04-C25-DF-370	11/22/2004 12:45	Benzene	ND	1	U	SW8260B	µg/L
C-25	TEAD-11-04-C25-DF-370	11/22/2004 12:45	Carbon Tetrachloride	14	1		SW8260B	µg/L
C-25	TEAD-11-04-C25-DF-370	11/22/2004 12:45	Chloroethane	ND	1	U	SW8260B	µg/L
C-25	TEAD-11-04-C25-DF-370	11/22/2004 12:45	Chloroform	0.31	1	J / TR	SW8260B	µg/L
C-25	TEAD-11-04-C25-DF-370	11/22/2004 12:45	Ethylbenzene	ND	1	U	SW8260B	µg/L
C-25	TEAD-11-04-C25-DF-370	11/22/2004 12:45	Methylene Chloride	ND	5	U	SW8260B	µg/L
C-25	TEAD-11-04-C25-DF-370	11/22/2004 12:45	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
C-25	TEAD-11-04-C25-DF-370	11/22/2004 12:45	Toluene	ND	1	U	SW8260B	µg/L
C-25	TEAD-11-04-C25-DF-370	11/22/2004 12:45	Trichloroethene (TCE)	15	1		SW8260B	µg/L
C-25	TEAD-11-04-C25-DF-370	11/22/2004 12:45	Vinyl Chloride	ND	2	U	SW8260B	µg/L
C-25	TEAD-11-04-C25-DF-370	11/22/2004 12:45	Xylenes	ND	1	U	SW8260B	µg/L
C-26	TEAD-11-04-C26-DF-364	11/17/2004 15:10	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
C-26	TEAD-11-04-C26-DF-364	11/17/2004 15:10	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
C-26	TEAD-11-04-C26-DF-364	11/17/2004 15:10	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
C-26	TEAD-11-04-C26-DF-364	11/17/2004 15:10	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
C-26	TEAD-11-04-C26-DF-364	11/17/2004 15:10	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
C-26	TEAD-11-04-C26-DF-364	11/17/2004 15:10	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
C-26	TEAD-11-04-C26-DF-364	11/17/2004 15:10	1,2 Dicholorethane	ND	1	U	SW8260B	µg/L
C-26	TEAD-11-04-C26-DF-364	11/17/2004 15:10	Benzene	ND	1	U	SW8260B	µg/L
C-26	TEAD-11-04-C26-DF-364	11/17/2004 15:10	Carbon Tetrachloride	0.67	1	J / TR	SW8260B	µg/L
C-26	TEAD-11-04-C26-DF-364	11/17/2004 15:10	Chloroethane	ND	1	U	SW8260B	µg/L
C-26	TEAD-11-04-C26-DF-364	11/17/2004 15:10	Chloroform	0.36	1	J / TR	SW8260B	µg/L
C-26	TEAD-11-04-C26-DF-364	11/17/2004 15:10	Ethylbenzene	ND	1	U	SW8260B	µg/L

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WELL ID	FIELD SAMPLE ID	SAMPLING DATE	ANALYTE	RESULT	PQL	QUALIFER	METHOD	UNITS
C-26	TEAD-11-04-C26-DF-364	11/17/2004 15:10	Methylene Chloride	ND	5	U	SW8260B	µg/L
C-26	TEAD-11-04-C26-DF-364	11/17/2004 15:10	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
C-26	TEAD-11-04-C26-DF-364	11/17/2004 15:10	Toluene	ND	1	U	SW8260B	µg/L
C-26	TEAD-11-04-C26-DF-364	11/17/2004 15:10	Trichloroethene (TCE)	490	25		SW8260B	µg/L
C-26	TEAD-11-04-C26-DF-364	11/17/2004 15:10	Vinyl Chloride	ND	2	U	SW8260B	µg/L
C-26	TEAD-11-04-C26-DF-364	11/17/2004 15:10	Xylenes	ND	1	U	SW8260B	µg/L
C-30	TEAD-11-04-C30-DF-287	11/17/2004 12:55	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
C-30	TEAD-11-04-C30-DF-287	11/17/2004 12:55	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
C-30	TEAD-11-04-C30-DF-287	11/17/2004 12:55	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
C-30	TEAD-11-04-C30-DF-287	11/17/2004 12:55	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
C-30	TEAD-11-04-C30-DF-287	11/17/2004 12:55	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
C-30	TEAD-11-04-C30-DF-287	11/17/2004 12:55	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
C-30	TEAD-11-04-C30-DF-287	11/17/2004 12:55	1,2 Dicholorethane	ND	1	U	SW8260B	µg/L
C-30	TEAD-11-04-C30-DF-287	11/17/2004 12:55	Benzene	ND	1	U	SW8260B	µg/L
C-30	TEAD-11-04-C30-DF-287	11/17/2004 12:55	Carbon Tetrachloride	11	1	J	SW8260B	µg/L
C-30	TEAD-11-04-C30-DF-287	11/17/2004 12:55	Chloroethane	ND	1	U	SW8260B	µg/L
C-30	TEAD-11-04-C30-DF-287	11/17/2004 12:55	Chloroform	ND	1	U	SW8260B	µg/L
C-30	TEAD-11-04-C30-DF-287	11/17/2004 12:55	Ethylbenzene	ND	1	U	SW8260B	µg/L
C-30	TEAD-11-04-C30-DF-287	11/17/2004 12:55	Methylene Chloride	ND	5	U	SW8260B	µg/L
C-30	TEAD-11-04-C30-DF-287	11/17/2004 12:55	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
C-30	TEAD-11-04-C30-DF-287	11/17/2004 12:55	Toluene	ND	1	U	SW8260B	µg/L
C-30	TEAD-11-04-C30-DF-287	11/17/2004 12:55	Trichloroethene (TCE)	3.4	1		SW8260B	µg/L
C-30	TEAD-11-04-C30-DF-287	11/17/2004 12:55	Vinyl Chloride	ND	2	U	SW8260B	µg/L
C-30	TEAD-11-04-C30-DF-287	11/17/2004 12:55	Xylenes	ND	1	U	SW8260B	µg/L
C-32	TEAD-11-04-C32-DF-394	11/22/2004 9:30	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
C-32	TEAD-11-04-C32-DF-394	11/22/2004 9:30	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
C-32	TEAD-11-04-C32-DF-394	11/22/2004 9:30	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
C-32	TEAD-11-04-C32-DF-394	11/22/2004 9:30	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
C-32	TEAD-11-04-C32-DF-394	11/22/2004 9:30	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
C-32	TEAD-11-04-C32-DF-394	11/22/2004 9:30	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
C-32	TEAD-11-04-C32-DF-394	11/22/2004 9:30	1,2 Dicholorethane	ND	1	U	SW8260B	µg/L
C-32	TEAD-11-04-C32-DF-394	11/22/2004 9:30	Benzene	ND	1	U	SW8260B	µg/L
C-32	TEAD-11-04-C32-DF-394	11/22/2004 9:30	Carbon Tetrachloride	4.1	1		SW8260B	µg/L
C-32	TEAD-11-04-C32-DF-394	11/22/2004 9:30	Chloroethane	ND	1	U	SW8260B	µg/L

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WELL ID	FIELD SAMPLE ID	SAMPLING DATE	ANALYTE	RESULT	PQL	QUALIFER	METHOD	UNITS
C-32	TEAD-11-04-C32-DF-394	11/22/2004 9:30	Chloroform	ND	1	U	SW8260B	µg/L
C-32	TEAD-11-04-C32-DF-394	11/22/2004 9:30	Ethylbenzene	ND	1	U	SW8260B	µg/L
C-32	TEAD-11-04-C32-DF-394	11/22/2004 9:30	Methylene Chloride	ND	5	U	SW8260B	µg/L
C-32	TEAD-11-04-C32-DF-394	11/22/2004 9:30	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
C-32	TEAD-11-04-C32-DF-394	11/22/2004 9:30	Toluene	ND	1	U	SW8260B	µg/L
C-32	TEAD-11-04-C32-DF-394	11/22/2004 9:30	Trichloroethene (TCE)	ND	1	U	SW8260B	µg/L
C-32	TEAD-11-04-C32-DF-394	11/22/2004 9:30	Vinyl Chloride	ND	2	U	SW8260B	µg/L
C-32	TEAD-11-04-C32-DF-394	11/22/2004 9:30	Xylenes	ND	1	U	SW8260B	µg/L
C-33	TEAD-11-04-C33-DF-369	11/17/2004 14:50	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
C-33	TEAD-11-04-C33-DF-369	11/17/2004 14:50	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
C-33	TEAD-11-04-C33-DF-369	11/17/2004 14:50	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
C-33	TEAD-11-04-C33-DF-369	11/17/2004 14:50	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
C-33	TEAD-11-04-C33-DF-369	11/17/2004 14:50	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
C-33	TEAD-11-04-C33-DF-369	11/17/2004 14:50	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
C-33	TEAD-11-04-C33-DF-369	11/17/2004 14:50	1,2 Dichlorethane	0.21	1	J / TR	SW8260B	µg/L
C-33	TEAD-11-04-C33-DF-369	11/17/2004 14:50	Benzene	ND	1	U	SW8260B	µg/L
C-33	TEAD-11-04-C33-DF-369	11/17/2004 14:50	Carbon Tetrachloride	2.7	1	J / TR	SW8260B	µg/L
C-33	TEAD-11-04-C33-DF-369	11/17/2004 14:50	Chloroethane	ND	1	U	SW8260B	µg/L
C-33	TEAD-11-04-C33-DF-369	11/17/2004 14:50	Chloroform	1.7	1		SW8260B	µg/L
C-33	TEAD-11-04-C33-DF-369	11/17/2004 14:50	Ethylbenzene	ND	1	U	SW8260B	µg/L
C-33	TEAD-11-04-C33-DF-369	11/17/2004 14:50	Methylene Chloride	ND	5	U	SW8260B	µg/L
C-33	TEAD-11-04-C33-DF-369	11/17/2004 14:50	Tetrachloroethane (PCE)	0.28	1	J	SW8260B	µg/L
C-33	TEAD-11-04-C33-DF-369	11/17/2004 14:50	Toluene	ND	1	U	SW8260B	µg/L
C-33	TEAD-11-04-C33-DF-369	11/17/2004 14:50	Trichloroethene (TCE)	1600	100		SW8260B	µg/L
C-33	TEAD-11-04-C33-DF-369	11/17/2004 14:50	Vinyl Chloride	ND	2	U	SW8260B	µg/L
C-33	TEAD-11-04-C33-DF-369	11/17/2004 14:50	Xylenes	ND	1	U	SW8260B	µg/L
C-34	TEAD-11-04-C34-DF-359	11/22/2004 14:40	1,1 - Dichloroethene	0.38	1	J / TR	SW8260B	µg/L
C-34	TEAD-11-04-C34-DF-359	11/22/2004 14:40	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
C-34	TEAD-11-04-C34-DF-359	11/22/2004 14:40	1,1,1 - Trichloroethane	0.25	1	J / TR	SW8260B	µg/L
C-34	TEAD-11-04-C34-DF-359	11/22/2004 14:40	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
C-34	TEAD-11-04-C34-DF-359	11/22/2004 14:40	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
C-34	TEAD-11-04-C34-DF-359	11/22/2004 14:40	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
C-34	TEAD-11-04-C34-DF-359	11/22/2004 14:40	1,2 Dichlorethane	1.6	1		SW8260B	µg/L
C-34	TEAD-11-04-C34-DF-359	11/22/2004 14:40	Benzene	ND	1	U	SW8260B	µg/L

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WELL ID	FIELD SAMPLE ID	SAMPLING DATE	ANALYTE	RESULT	PQL	QUALIFER	METHOD	UNITS	
C-34	TEAD-11-04-C34-DF-359	11/22/2004 14:40	Carbon Tetrachloride	28	1		SW8260B	µg/L	
C-34	TEAD-11-04-C34-DF-359	11/22/2004 14:40	Chloroethane	ND	1	U	SW8260B	µg/L	
C-34	TEAD-11-04-C34-DF-359	11/22/2004 14:40	Chloroform		1.7	1		µg/L	
C-34	TEAD-11-04-C34-DF-359	11/22/2004 14:40	Ethylbenzene	ND	1	U	SW8260B	µg/L	
C-34	TEAD-11-04-C34-DF-359	11/22/2004 14:40	Methylene Chloride	ND	5	U	SW8260B	µg/L	
C-34	TEAD-11-04-C34-DF-359	11/22/2004 14:40	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L	
C-34	TEAD-11-04-C34-DF-359	11/22/2004 14:40	Toluene	ND	1	U	SW8260B	µg/L	
C-34	TEAD-11-04-C34-DF-359	11/22/2004 14:40	Trichloroethene (TCE)		18	1		µg/L	
C-34	TEAD-11-04-C34-DF-359	11/22/2004 14:40	Vinyl Chloride	ND	2	U	SW8260B	µg/L	
C-34	TEAD-11-04-C34-DF-359	11/22/2004 14:40	Xylenes	ND	1	U	SW8260B	µg/L	
C-35	TEAD-11-04-C35-DF-321	11/15/2004 12:30	1,1 - Dichloroethane		0.35	1	J / TR	µg/L	
C-35	TEAD-11-04-C35-DF-321	11/15/2004 12:30	1,1 - Dichloroethene		9.7	1		µg/L	
C-35	TEAD-11-04-C35-DF-321	11/15/2004 12:30	1,1,1 - Trichloroethane		4.4	1		µg/L	
C-35	TEAD-11-04-C35-DF-321	11/15/2004 12:30	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L	
C-35	TEAD-11-04-C35-DF-321	11/15/2004 12:30	1,2 Dichloroethene		2.7	1		µg/L	
C-35	TEAD-11-04-C35-DF-321	11/15/2004 12:30	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L	
C-35	TEAD-11-04-C35-DF-321	11/15/2004 12:30	1,2 Dicholorethane	ND	1	U	SW8260B	µg/L	
C-35	TEAD-11-04-C35-KA	11/16/2004 11:20	1,4-Dioxane		7.4	1		SW8270SIM	µg/L
C-35	TEAD-11-04-C35-DF-321	11/15/2004 12:30	Benzene	ND	1	U	SW8260B	µg/L	
C-35	TEAD-11-04-C35-DF-321	11/15/2004 12:30	Carbon Tetrachloride	ND	1	U	SW8260B	µg/L	
C-35	TEAD-11-04-C35-DF-321	11/15/2004 12:30	Chloroethane	ND	1	U	SW8260B	µg/L	
C-35	TEAD-11-04-C35-DF-321	11/15/2004 12:30	Chloroform		0.36	1	J / TR	µg/L	
C-35	TEAD-11-04-C35-DF-321	11/15/2004 12:30	Ethylbenzene	ND	1	U	SW8260B	µg/L	
C-35	TEAD-11-04-C35-DF-321	11/15/2004 12:30	Methylene Chloride	ND	5	U	SW8260B	µg/L	
C-35	TEAD-11-04-C35-DF-321	11/15/2004 12:30	Tetrachloroethane (PCE)		61	25		µg/L	
C-35	TEAD-11-04-C35-DF-321	11/15/2004 12:30	Toluene	ND	1	U	SW8260B	µg/L	
C-35	TEAD-11-04-C35-DF-321	11/15/2004 12:30	Trichloroethene (TCE)		30	25		µg/L	
C-35	TEAD-11-04-C35-DF-321	11/15/2004 12:30	Vinyl Chloride	ND	2	U	SW8260B	µg/L	
C-35	TEAD-11-04-C35-DF-321	11/15/2004 12:30	Xylenes	ND	1	U	SW8260B	µg/L	
C-37	TEAD-11-04-C37-DF-428	11/15/2004 12:45	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L	
C-37	TEAD-11-04-C37-DF-428	11/15/2004 12:45	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L	
C-37	TEAD-11-04-C37-DF-428	11/15/2004 12:45	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L	
C-37	TEAD-11-04-C37-DF-428	11/15/2004 12:45	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L	
C-37	TEAD-11-04-C37-DF-428	11/15/2004 12:45	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L	

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WELL ID	FIELD SAMPLE ID	SAMPLING DATE	ANALYTE	RESULT	PQL	QUALIFER	METHOD	UNITS
C-37	TEAD-11-04-C37-DF-428	11/15/2004 12:45	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
C-37	TEAD-11-04-C37-DF-428	11/15/2004 12:45	1,2 Dichloroethane	ND	1	U	SW8260B	µg/L
C-37	TEAD-11-04-C37-KA	11/16/2004 13:45	1,4-Dioxane	0.86	1	J / TR	SW8270SIM	µg/L
C-37	TEAD-11-04-C37-DF-428	11/15/2004 12:45	Benzene	ND	1	U	SW8260B	µg/L
C-37	TEAD-11-04-C37-DF-428	11/15/2004 12:45	Carbon Tetrachloride	ND	1	U	SW8260B	µg/L
C-37	TEAD-11-04-C37-DF-428	11/15/2004 12:45	Chloroethane	ND	1	U	SW8260B	µg/L
C-37	TEAD-11-04-C37-DF-428	11/15/2004 12:45	Chloroform	ND	1	U	SW8260B	µg/L
C-37	TEAD-11-04-C37-DF-428	11/15/2004 12:45	Ethylbenzene	ND	1	U	SW8260B	µg/L
C-37	TEAD-11-04-C37-DF-428	11/15/2004 12:45	Methylene Chloride	ND	5	U	SW8260B	µg/L
C-37	TEAD-11-04-C37-DF-428	11/15/2004 12:45	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
C-37	TEAD-11-04-C37-DF-428	11/15/2004 12:45	Toluene	ND	1	U	SW8260B	µg/L
C-37	TEAD-11-04-C37-DF-428	11/15/2004 12:45	Trichloroethene (TCE)	19	1	J	SW8260B	µg/L
C-37	TEAD-11-04-C37-DF-428	11/15/2004 12:45	Vinyl Chloride	ND	2	U	SW8260B	µg/L
C-37	TEAD-11-04-C37-DF-428	11/15/2004 12:45	Xylenes	ND	1	U	SW8260B	µg/L
C-38	TEAD-11-04-C38-DF-495	11/23/2004 10:30	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
C-38	TEAD-11-04-C38-DF-495	11/23/2004 10:30	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
C-38	TEAD-11-04-C38-DF-495	11/23/2004 10:30	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
C-38	TEAD-11-04-C38-DF-495	11/23/2004 10:30	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
C-38	TEAD-11-04-C38-DF-495	11/23/2004 10:30	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
C-38	TEAD-11-04-C38-DF-495	11/23/2004 10:30	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
C-38	TEAD-11-04-C38-DF-495	11/23/2004 10:30	1,2 Dichloroethane	ND	1	U	SW8260B	µg/L
C-38	TEAD-11-04-C38-DF-495	11/23/2004 10:30	Benzene	ND	1	U	SW8260B	µg/L
C-38	TEAD-11-04-C38-DF-495	11/23/2004 10:30	Carbon Tetrachloride	ND	1	U	SW8260B	µg/L
C-38	TEAD-11-04-C38-DF-495	11/23/2004 10:30	Chloroethane	ND	1	U	SW8260B	µg/L
C-38	TEAD-11-04-C38-DF-495	11/23/2004 10:30	Chloroform	ND	1	U	SW8260B	µg/L
C-38	TEAD-11-04-C38-DF-495	11/23/2004 10:30	Ethylbenzene	ND	1	U	SW8260B	µg/L
C-38	TEAD-11-04-C38-DF-495	11/23/2004 10:30	Methylene Chloride	ND	5	U	SW8260B	µg/L
C-38	TEAD-11-04-C38-DF-495	11/23/2004 10:30	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
C-38	TEAD-11-04-C38-DF-495	11/23/2004 10:30	Toluene	ND	1	U	SW8260B	µg/L
C-38	TEAD-11-04-C38-DF-495	11/23/2004 10:30	Trichloroethene (TCE)	ND	1	U	SW8260B	µg/L
C-38	TEAD-11-04-C38-DF-495	11/23/2004 10:30	Vinyl Chloride	ND	2	U	SW8260B	µg/L
C-38	TEAD-11-04-C38-DF-495	11/23/2004 10:30	Xylenes	ND	1	U	SW8260B	µg/L
C-39	TEAD-11-04-C39-DF-447	11/17/2004 14:45	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
C-39	TEAD-11-04-C39-DF-447	11/17/2004 14:45	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L

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WELL ID	FIELD SAMPLE ID	SAMPLING DATE	ANALYTE	RESULT	PQL	QUALIFER	METHOD	UNITS
C-39	TEAD-11-04-C39-DF-447	11/17/2004 14:45	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
C-39	TEAD-11-04-C39-DF-447	11/17/2004 14:45	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
C-39	TEAD-11-04-C39-DF-447	11/17/2004 14:45	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
C-39	TEAD-11-04-C39-DF-447	11/17/2004 14:45	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
C-39	TEAD-11-04-C39-DF-447	11/17/2004 14:45	1,2 Dicholorethane	ND	1	U	SW8260B	µg/L
C-39	TEAD-11-04-C39-DF-447	11/17/2004 14:45	Benzene	ND	1	U	SW8260B	µg/L
C-39	TEAD-11-04-C39-DF-447	11/17/2004 14:45	Carbon Tetrachloride	ND	1	U	SW8260B	µg/L
C-39	TEAD-11-04-C39-DF-447	11/17/2004 14:45	Chloroethane	ND	1	U	SW8260B	µg/L
C-39	TEAD-11-04-C39-DF-447	11/17/2004 14:45	Chloroform	ND	1	U	SW8260B	µg/L
C-39	TEAD-11-04-C39-DF-447	11/17/2004 14:45	Ethylbenzene	ND	1	U	SW8260B	µg/L
C-39	TEAD-11-04-C39-DF-447	11/17/2004 14:45	Methylene Chloride	ND	5	U	SW8260B	µg/L
C-39	TEAD-11-04-C39-DF-447	11/17/2004 14:45	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
C-39	TEAD-11-04-C39-DF-447	11/17/2004 14:45	Toluene	0.33	1	J / TR	SW8260B	µg/L
C-39	TEAD-11-04-C39-DF-447	11/17/2004 14:45	Trichloroethene (TCE)	ND	1	U	SW8260B	µg/L
C-39	TEAD-11-04-C39-DF-447	11/17/2004 14:45	Vinyl Chloride	ND	2	U	SW8260B	µg/L
C-39	TEAD-11-04-C39-DF-447	11/17/2004 14:45	Xylenes	ND	1	U	SW8260B	µg/L
C-40	TEAD-11-04-C40-DF-285	11/23/2004 13:00	1,1 - Dichloroethene	0.3	1	J / TR	SW8260B	µg/L
C-40	TEAD-11-04-C40-DF-285	11/23/2004 13:00	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
C-40	TEAD-11-04-C40-DF-285	11/23/2004 13:00	1,1,1 - Trichloroethane	0.29	1	J / TR	SW8260B	µg/L
C-40	TEAD-11-04-C40-DF-285	11/23/2004 13:00	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
C-40	TEAD-11-04-C40-DF-285	11/23/2004 13:00	1,2 Dichloroethene	5.6	1		SW8260B	µg/L
C-40	TEAD-11-04-C40-DF-285	11/23/2004 13:00	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
C-40	TEAD-11-04-C40-DF-285	11/23/2004 13:00	1,2 Dicholorethane	ND	1	U	SW8260B	µg/L
C-40	TEAD-11-04-C40-DF-285	11/23/2004 13:00	Benzene	ND	1	U	SW8260B	µg/L
C-40	TEAD-11-04-C40-DF-285	11/23/2004 13:00	Carbon Tetrachloride	ND	1	U	SW8260B	µg/L
C-40	TEAD-11-04-C40-DF-285	11/23/2004 13:00	Chloroethane	ND	1	U	SW8260B	µg/L
C-40	TEAD-11-04-C40-DF-285	11/23/2004 13:00	Chloroform	0.32	1	J / TR	SW8260B	µg/L
C-40	TEAD-11-04-C40-DF-285	11/23/2004 13:00	Ethylbenzene	ND	1	U	SW8260B	µg/L
C-40	TEAD-11-04-C40-DF-285	11/23/2004 13:00	Methylene Chloride	ND	5	U	SW8260B	µg/L
C-40	TEAD-11-04-C40-DF-285	11/23/2004 13:00	Tetrachloroethane (PCE)	3.5	1		SW8260B	µg/L
C-40	TEAD-11-04-C40-DF-285	11/23/2004 13:00	Toluene	ND	1	U	SW8260B	µg/L
C-40	TEAD-11-04-C40-DF-285	11/23/2004 13:00	Trichloroethene (TCE)	290	50		SW8260B	µg/L
C-40	TEAD-11-04-C40-DF-285	11/23/2004 13:00	Vinyl Chloride	ND	2	U	SW8260B	µg/L
C-40	TEAD-11-04-C40-DF-285	11/23/2004 13:00	Xylenes	ND	1	U	SW8260B	µg/L

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WELL ID	FIELD SAMPLE ID	SAMPLING DATE	ANALYTE	RESULT	PQL	QUALIFER	METHOD	UNITS
D-01	TEAD-11-04-D01-DF-272	11/16/2004 14:55	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
D-01	TEAD-11-04-D01-DF-272	11/16/2004 14:55	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
D-01	TEAD-11-04-D01-DF-272	11/16/2004 14:55	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
D-01	TEAD-11-04-D01-DF-272	11/16/2004 14:55	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
D-01	TEAD-11-04-D01-DF-272	11/16/2004 14:55	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
D-01	TEAD-11-04-D01-DF-272	11/16/2004 14:55	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
D-01	TEAD-11-04-D01-DF-272	11/16/2004 14:55	1,2 Dicholorethane	ND	1	U	SW8260B	µg/L
D-01	TEAD-11-04-D01-DF-272	11/16/2004 14:55	Benzene	ND	1	U	SW8260B	µg/L
D-01	TEAD-11-04-D01-DF-272	11/16/2004 14:55	Carbon Tetrachloride	0.4	1	J / TR	SW8260B	µg/L
D-01	TEAD-11-04-D01-DF-272	11/16/2004 14:55	Chloroethane	ND	1	U	SW8260B	µg/L
D-01	TEAD-11-04-D01-DF-272	11/16/2004 14:55	Chloroform	ND	1	U	SW8260B	µg/L
D-01	TEAD-11-04-D01-DF-272	11/16/2004 14:55	Ethylbenzene	ND	1	U	SW8260B	µg/L
D-01	TEAD-11-04-D01-DF-272	11/16/2004 14:55	Methylene Chloride	ND	5	U	SW8260B	µg/L
D-01	TEAD-11-04-D01-DF-272	11/16/2004 14:55	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
D-01	TEAD-11-04-D01-DF-272	11/16/2004 14:55	Toluene	ND	1	U	SW8260B	µg/L
D-01	TEAD-11-04-D01-DF-272	11/16/2004 14:55	Trichloroethene (TCE)	39	1		SW8260B	µg/L
D-01	TEAD-11-04-D01-DF-272	11/16/2004 14:55	Vinyl Chloride	ND	2	U	SW8260B	µg/L
D-01	TEAD-11-04-D01-DF-272	11/16/2004 14:55	Xylenes	ND	1	U	SW8260B	µg/L
D-02	TEAD-11-04-D2-DF-362	11/16/2004 11:30	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
D-02	TEAD-11-04-D2-DF-362	11/16/2004 11:30	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
D-02	TEAD-11-04-D2-DF-362	11/16/2004 11:30	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
D-02	TEAD-11-04-D2-DF-362	11/16/2004 11:30	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
D-02	TEAD-11-04-D2-DF-362	11/16/2004 11:30	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
D-02	TEAD-11-04-D2-DF-362	11/16/2004 11:30	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
D-02	TEAD-11-04-D2-DF-362	11/16/2004 11:30	1,2 Dicholorethane	ND	1	U	SW8260B	µg/L
D-02	TEAD-11-04-D2-DF-362	11/16/2004 11:30	Benzene	ND	1	U	SW8260B	µg/L
D-02	TEAD-11-04-D2-DF-362	11/16/2004 11:30	Carbon Tetrachloride	0.4	1	J / TR	SW8260B	µg/L
D-02	TEAD-11-04-D2-DF-362	11/16/2004 11:30	Chloroethane	ND	1	U	SW8260B	µg/L
D-02	TEAD-11-04-D2-DF-362	11/16/2004 11:30	Chloroform	ND	1	U	SW8260B	µg/L
D-02	TEAD-11-04-D2-DF-362	11/16/2004 11:30	Ethylbenzene	ND	1	U	SW8260B	µg/L
D-02	TEAD-11-04-D2-DF-362	11/16/2004 11:30	Methylene Chloride	ND	5	U	SW8260B	µg/L
D-02	TEAD-11-04-D2-DF-362	11/16/2004 11:30	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
D-02	TEAD-11-04-D2-DF-362	11/16/2004 11:30	Toluene	ND	1	U	SW8260B	µg/L
D-02	TEAD-11-04-D2-DF-362	11/16/2004 11:30	Trichloroethene (TCE)	13	1		SW8260B	µg/L

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WELL ID	FIELD SAMPLE ID	SAMPLING DATE	ANALYTE	RESULT	PQL	QUALIFER	METHOD	UNITS
D-02	TEAD-11-04-D2-DF-362	11/16/2004 11:30	Vinyl Chloride	ND	2	U	SW8260B	µg/L
D-02	TEAD-11-04-D2-DF-362	11/16/2004 11:30	Xylenes	ND	1	U	SW8260B	µg/L
D-03	TEAD-11-04-D03-DF-212	11/16/2004 14:05	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
D-03	TEAD-11-04-D03-DF-212	11/16/2004 14:05	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
D-03	TEAD-11-04-D03-DF-212	11/16/2004 14:05	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
D-03	TEAD-11-04-D03-DF-212	11/16/2004 14:05	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
D-03	TEAD-11-04-D03-DF-212	11/16/2004 14:05	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
D-03	TEAD-11-04-D03-DF-212	11/16/2004 14:05	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
D-03	TEAD-11-04-D03-DF-212	11/16/2004 14:05	1,2 Dicholorethane	ND	1	U	SW8260B	µg/L
D-03	TEAD-11-04-D03-DF-212	11/16/2004 14:05	Benzene	ND	1	U	SW8260B	µg/L
D-03	TEAD-11-04-D03-DF-212	11/16/2004 14:05	Carbon Tetrachloride	ND	1	U	SW8260B	µg/L
D-03	TEAD-11-04-D03-DF-212	11/16/2004 14:05	Chloroethane	ND	1	U	SW8260B	µg/L
D-03	TEAD-11-04-D03-DF-212	11/16/2004 14:05	Chloroform	ND	1	U	SW8260B	µg/L
D-03	TEAD-11-04-D03-DF-212	11/16/2004 14:05	Ethylbenzene	ND	1	U	SW8260B	µg/L
D-03	TEAD-11-04-D03-DF-212	11/16/2004 14:05	Methylene Chloride	ND	5	U	SW8260B	µg/L
D-03	TEAD-11-04-D03-DF-212	11/16/2004 14:05	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
D-03	TEAD-11-04-D03-DF-212	11/16/2004 14:05	Toluene	ND	1	U	SW8260B	µg/L
D-03	TEAD-11-04-D03-DF-212	11/16/2004 14:05	Trichloroethene (TCE)	5.9	1	J	SW8260B	µg/L
D-03	TEAD-11-04-D03-DF-212	11/16/2004 14:05	Vinyl Chloride	ND	2	U	SW8260B	µg/L
D-03	TEAD-11-04-D03-DF-212	11/16/2004 14:05	Xylenes	ND	1	U	SW8260B	µg/L
D-04	TEAD-11-04-D04-DF-279	11/16/2004 13:30	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
D-04	TEAD-11-04-D04-DF-279	11/16/2004 13:30	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
D-04	TEAD-11-04-D04-DF-279	11/16/2004 13:30	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
D-04	TEAD-11-04-D04-DF-279	11/16/2004 13:30	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
D-04	TEAD-11-04-D04-DF-279	11/16/2004 13:30	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
D-04	TEAD-11-04-D04-DF-279	11/16/2004 13:30	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
D-04	TEAD-11-04-D04-DF-279	11/16/2004 13:30	1,2 Dicholorethane	ND	1	U	SW8260B	µg/L
D-04	TEAD-11-04-D04-DF-279	11/16/2004 13:30	Benzene	ND	1	U	SW8260B	µg/L
D-04	TEAD-11-04-D04-DF-279	11/16/2004 13:30	Carbon Tetrachloride	1.3	1		SW8260B	µg/L
D-04	TEAD-11-04-D04-DF-279	11/16/2004 13:30	Chloroethane	ND	1	U	SW8260B	µg/L
D-04	TEAD-11-04-D04-DF-279	11/16/2004 13:30	Chloroform	0.27	1	J / TR	SW8260B	µg/L
D-04	TEAD-11-04-D04-DF-279	11/16/2004 13:30	Ethylbenzene	ND	1	U	SW8260B	µg/L
D-04	TEAD-11-04-D04-DF-279	11/16/2004 13:30	Methylene Chloride	ND	5	U	SW8260B	µg/L
D-04	TEAD-11-04-D04-DF-279	11/16/2004 13:30	Tetrachloroethane (PCE)	0.28	1	J / TR	SW8260B	µg/L

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WELL ID	FIELD SAMPLE ID	SAMPLING DATE	ANALYTE	RESULT	PQL	QUALIFER	METHOD	UNITS
D-04	TEAD-11-04-D04-DF-279	11/16/2004 13:30	Toluene	ND	1	U	SW8260B	µg/L
D-04	TEAD-11-04-D04-DF-279	11/16/2004 13:30	Trichloroethene (TCE)	170	10	J	SW8260B	µg/L
D-04	TEAD-11-04-D04-DF-279	11/16/2004 13:30	Vinyl Chloride	ND	2	U	SW8260B	µg/L
D-04	TEAD-11-04-D04-DF-279	11/16/2004 13:30	Xylenes	ND	1	U	SW8260B	µg/L
D-05	TEAD-11-04-D05-DF-202	11/16/2004 14:25	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
D-05	TEAD-11-04-D05-DF-202	11/16/2004 14:25	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
D-05	TEAD-11-04-D05-DF-202	11/16/2004 14:25	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
D-05	TEAD-11-04-D05-DF-202	11/16/2004 14:25	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
D-05	TEAD-11-04-D05-DF-202	11/16/2004 14:25	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
D-05	TEAD-11-04-D05-DF-202	11/16/2004 14:25	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
D-05	TEAD-11-04-D05-DF-202	11/16/2004 14:25	1,2 Dicholorethane	ND	1	U	SW8260B	µg/L
D-05	TEAD-11-04-D05-DF-202	11/16/2004 14:25	Benzene	ND	1	U	SW8260B	µg/L
D-05	TEAD-11-04-D05-DF-202	11/16/2004 14:25	Carbon Tetrachloride	ND	1	U	SW8260B	µg/L
D-05	TEAD-11-04-D05-DF-202	11/16/2004 14:25	Chloroethane	ND	1	U	SW8260B	µg/L
D-05	TEAD-11-04-D05-DF-202	11/16/2004 14:25	Chloroform	ND	1	U	SW8260B	µg/L
D-05	TEAD-11-04-D05-DF-202	11/16/2004 14:25	Ethylbenzene	ND	1	U	SW8260B	µg/L
D-05	TEAD-11-04-D05-DF-202	11/16/2004 14:25	Methylene Chloride	ND	5	U	SW8260B	µg/L
D-05	TEAD-11-04-D05-DF-202	11/16/2004 14:25	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
D-05	TEAD-11-04-D05-DF-202	11/16/2004 14:25	Toluene	ND	1	U	SW8260B	µg/L
D-05	TEAD-11-04-D05-DF-202	11/16/2004 14:25	Trichloroethene (TCE)	22	1		SW8260B	µg/L
D-05	TEAD-11-04-D05-DF-202	11/16/2004 14:25	Vinyl Chloride	ND	2	U	SW8260B	µg/L
D-05	TEAD-11-04-D05-DF-202	11/16/2004 14:25	Xylenes	ND	1	U	SW8260B	µg/L
D-06	TEAD-11-04-D06-DF-287	11/16/2004 15:15	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
D-06	TEAD-11-04-D06-DF-287	11/16/2004 15:15	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
D-06	TEAD-11-04-D06-DF-287	11/16/2004 15:15	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
D-06	TEAD-11-04-D06-DF-287	11/16/2004 15:15	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
D-06	TEAD-11-04-D06-DF-287	11/16/2004 15:15	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
D-06	TEAD-11-04-D06-DF-287	11/16/2004 15:15	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
D-06	TEAD-11-04-D06-DF-287	11/16/2004 15:15	1,2 Dicholorethane	ND	1	U	SW8260B	µg/L
D-06	TEAD-11-04-D06-DF-287	11/16/2004 15:15	Benzene	ND	1	U	SW8260B	µg/L
D-06	TEAD-11-04-D06-DF-287	11/16/2004 15:15	Carbon Tetrachloride	ND	1	U	SW8260B	µg/L
D-06	TEAD-11-04-D06-DF-287	11/16/2004 15:15	Chloroethane	ND	1	U	SW8260B	µg/L
D-06	TEAD-11-04-D06-DF-287	11/16/2004 15:15	Chloroform	0.45	1	J / TR	SW8260B	µg/L
D-06	TEAD-11-04-D06-DF-287	11/16/2004 15:15	Ethylbenzene	ND	1	U	SW8260B	µg/L

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WELL ID	FIELD SAMPLE ID	SAMPLING DATE	ANALYTE	RESULT	PQL	QUALIFER	METHOD	UNITS
D-06	TEAD-11-04-D06-DF-287	11/16/2004 15:15	Methylene Chloride	ND	5	U	SW8260B	µg/L
D-06	TEAD-11-04-D06-DF-287	11/16/2004 15:15	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
D-06	TEAD-11-04-D06-DF-287	11/16/2004 15:15	Toluene	ND	1	U	SW8260B	µg/L
D-06	TEAD-11-04-D06-DF-287	11/16/2004 15:15	Trichloroethene (TCE)	1.4	1		SW8260B	µg/L
D-06	TEAD-11-04-D06-DF-287	11/16/2004 15:15	Vinyl Chloride	ND	2	U	SW8260B	µg/L
D-06	TEAD-11-04-D06-DF-287	11/16/2004 15:15	Xylenes	ND	1	U	SW8260B	µg/L
D-07	TEAD-11-04-D07-DF-212	11/16/2004 14:40	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
D-07	TEAD-11-04-D07-DF-212	11/16/2004 14:40	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
D-07	TEAD-11-04-D07-DF-212	11/16/2004 14:40	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
D-07	TEAD-11-04-D07-DF-212	11/16/2004 14:40	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
D-07	TEAD-11-04-D07-DF-212	11/16/2004 14:40	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
D-07	TEAD-11-04-D07-DF-212	11/16/2004 14:40	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
D-07	TEAD-11-04-D07-DF-212	11/16/2004 14:40	1,2 Dicholorethane	ND	1	U	SW8260B	µg/L
D-07	TEAD-11-04-D07-DF-212	11/16/2004 14:40	Benzene	ND	1	U	SW8260B	µg/L
D-07	TEAD-11-04-D07-DF-212	11/16/2004 14:40	Carbon Tetrachloride	0.52	1	J / TR	SW8260B	µg/L
D-07	TEAD-11-04-D07-DF-212	11/16/2004 14:40	Chloroethane	ND	1	U	SW8260B	µg/L
D-07	TEAD-11-04-D07-DF-212	11/16/2004 14:40	Chloroform	0.22	1	J / TR	SW8260B	µg/L
D-07	TEAD-11-04-D07-DF-212	11/16/2004 14:40	Ethylbenzene	ND	1	U	SW8260B	µg/L
D-07	TEAD-11-04-D07-DF-212	11/16/2004 14:40	Methylene Chloride	ND	5	U	SW8260B	µg/L
D-07	TEAD-11-04-D07-DF-212	11/16/2004 14:40	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
D-07	TEAD-11-04-D07-DF-212	11/16/2004 14:40	Toluene	ND	1	U	SW8260B	µg/L
D-07	TEAD-11-04-D07-DF-212	11/16/2004 14:40	Trichloroethene (TCE)	9.1	1		SW8260B	µg/L
D-07	TEAD-11-04-D07-DF-212	11/16/2004 14:40	Vinyl Chloride	ND	2	U	SW8260B	µg/L
D-07	TEAD-11-04-D07-DF-212	11/16/2004 14:40	Xylenes	ND	1	U	SW8260B	µg/L
D-09	TEAD-11-04-D09-DF-134	11/16/2004 15:40	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
D-09	TEAD-11-04-D09-DF-134	11/16/2004 15:40	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
D-09	TEAD-11-04-D09-DF-134	11/16/2004 15:40	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
D-09	TEAD-11-04-D09-DF-134	11/16/2004 15:40	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
D-09	TEAD-11-04-D09-DF-134	11/16/2004 15:40	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
D-09	TEAD-11-04-D09-DF-134	11/16/2004 15:40	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
D-09	TEAD-11-04-D09-DF-134	11/16/2004 15:40	1,2 Dicholorethane	ND	1	U	SW8260B	µg/L
D-09	TEAD-11-04-D09-DF-134	11/16/2004 15:40	Benzene	ND	1	U	SW8260B	µg/L
D-09	TEAD-11-04-D09-DF-134	11/16/2004 15:40	Carbon Tetrachloride	ND	1	U	SW8260B	µg/L
D-09	TEAD-11-04-D09-DF-134	11/16/2004 15:40	Chloroethane	ND	1	U	SW8260B	µg/L

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WELL ID	FIELD SAMPLE ID	SAMPLING DATE	ANALYTE	RESULT	PQL	QUALIFER	METHOD	UNITS	
D-09	TEAD-11-04-D09-DF-134	11/16/2004 15:40	Chloroform	ND	1	U	SW8260B	µg/L	
D-09	TEAD-11-04-D09-DF-134	11/16/2004 15:40	Ethylbenzene	ND	1	U	SW8260B	µg/L	
D-09	TEAD-11-04-D09-DF-134	11/16/2004 15:40	Methylene Chloride	ND	5	U	SW8260B	µg/L	
D-09	TEAD-11-04-D09-DF-134	11/16/2004 15:40	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L	
D-09	TEAD-11-04-D09-DF-134	11/16/2004 15:40	Toluene	ND	1	U	SW8260B	µg/L	
D-09	TEAD-11-04-D09-DF-134	11/16/2004 15:40	Trichloroethene (TCE)	ND	1	U	SW8260B	µg/L	
D-09	TEAD-11-04-D09-DF-134	11/16/2004 15:40	Vinyl Chloride	ND	2	U	SW8260B	µg/L	
D-09	TEAD-11-04-D09-DF-134	11/16/2004 15:40	Xylenes	ND	1	U	SW8260B	µg/L	
D-10	TEAD-11-04-D10-DF-193	11/16/2004 12:45	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L	
D-10	TEAD-11-04-D10-DF-193	11/16/2004 12:45	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L	
D-10	TEAD-11-04-D10-DF-193	11/16/2004 12:45	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L	
D-10	TEAD-11-04-D10-DF-193	11/16/2004 12:45	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L	
D-10	TEAD-11-04-D10-DF-193	11/16/2004 12:45	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L	
D-10	TEAD-11-04-D10-DF-193	11/16/2004 12:45	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L	
D-10	TEAD-11-04-D10-DF-193	11/16/2004 12:45	1,2 Dichlorethane	ND	1	U	SW8260B	µg/L	
D-10	TEAD-11-04-D10-DF-193	11/16/2004 12:45	Benzene	ND	1	U	SW8260B	µg/L	
D-10	TEAD-11-04-D10-DF-193	11/16/2004 12:45	Carbon Tetrachloride	ND	1	U	SW8260B	µg/L	
D-10	TEAD-11-04-D10-DF-193	11/16/2004 12:45	Chloroethane	ND	1	U	SW8260B	µg/L	
D-10	TEAD-11-04-D10-DF-193	11/16/2004 12:45	Chloroform	ND	1	U	SW8260B	µg/L	
D-10	TEAD-11-04-D10-DF-193	11/16/2004 12:45	Ethylbenzene	ND	1	U	SW8260B	µg/L	
D-10	TEAD-11-04-D10-DF-193	11/16/2004 12:45	Methylene Chloride	ND	5	U	SW8260B	µg/L	
D-10	TEAD-11-04-D10-DF-193	11/16/2004 12:45	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L	
D-10	TEAD-11-04-D10-DF-193	11/16/2004 12:45	Toluene	ND	1	U	SW8260B	µg/L	
D-10	TEAD-11-04-D10-DF-193	11/16/2004 12:45	Trichloroethene (TCE)		1	1		µg/L	
D-10	TEAD-11-04-D10-DF-193	11/16/2004 12:45	Vinyl Chloride	ND	2	U	SW8260B	µg/L	
D-10	TEAD-11-04-D10-DF-193	11/16/2004 12:45	Xylenes	ND	1	U	SW8260B	µg/L	
E-01	TEAD-11-04-E01-WF	11/10/2004 12:10	1,1 - Dichloroethane		0.5	1	J / TR	SW8260B	µg/L
E-01	TEAD-11-04-E01-WF	11/10/2004 12:10	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L	
E-01	TEAD-11-04-E01-WF	11/10/2004 12:10	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L	
E-01	TEAD-11-04-E01-WF	11/10/2004 12:10	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L	
E-01	TEAD-11-04-E01-WF	11/10/2004 12:10	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L	
E-01	TEAD-11-04-E01-WF	11/10/2004 12:10	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L	
E-01	TEAD-11-04-E01-WF	11/10/2004 12:10	1,2 Dichlorethane	ND	1	U	SW8260B	µg/L	
E-01	TEAD-11-04-E01-WF	11/10/2004 12:10	Benzene	ND	1	U	SW8260B	µg/L	

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E-01	TEAD-11-04-E01-WF	11/10/2004 12:10	Carbon Tetrachloride	0.8	1	J / TR	SW8260B	µg/L
E-01	TEAD-11-04-E01-WF	11/10/2004 12:10	Chloroethane	ND	1	U	SW8260B	µg/L
E-01	TEAD-11-04-E01-WF	11/10/2004 12:10	Chloroform	ND	1	U	SW8260B	µg/L
E-01	TEAD-11-04-E01-WF	11/10/2004 12:10	Ethylbenzene	ND	1	U	SW8260B	µg/L
E-01	TEAD-11-04-E01-WF	11/10/2004 12:10	Methylene Chloride	ND	5	U	SW8260B	µg/L
E-01	TEAD-11-04-E01-WF	11/10/2004 12:10	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
E-01	TEAD-11-04-E01-WF	11/10/2004 12:10	Toluene	ND	1	U	SW8260B	µg/L
E-01	TEAD-11-04-E01-WF	11/10/2004 12:10	Trichloroethene (TCE)	20	1		SW8260B	µg/L
E-01	TEAD-11-04-E01-WF	11/10/2004 12:10	Vinyl Chloride	ND	2	U	SW8260B	µg/L
E-01	TEAD-11-04-E01-WF	11/10/2004 12:10	Xylenes	ND	1	U	SW8260B	µg/L
E-02-1	TEAD-11-04-E02.1-WF	11/10/2004 11:30	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
E-02-1	TEAD-11-04-E02.1-WF	11/10/2004 11:30	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
E-02-1	TEAD-11-04-E02.1-WF	11/10/2004 11:30	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
E-02-1	TEAD-11-04-E02.1-WF	11/10/2004 11:30	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
E-02-1	TEAD-11-04-E02.1-WF	11/10/2004 11:30	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
E-02-1	TEAD-11-04-E02.1-WF	11/10/2004 11:30	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
E-02-1	TEAD-11-04-E02.1-WF	11/10/2004 11:30	1,2 Dicholorethane	ND	1	U	SW8260B	µg/L
E-02-1	TEAD-11-04-E02.1-WF	11/10/2004 11:30	Benzene	ND	1	U	SW8260B	µg/L
E-02-1	TEAD-11-04-E02.1-WF	11/10/2004 11:30	Carbon Tetrachloride	ND	1	U	SW8260B	µg/L
E-02-1	TEAD-11-04-E02.1-WF	11/10/2004 11:30	Chloroethane	ND	1	U	SW8260B	µg/L
E-02-1	TEAD-11-04-E02.1-WF	11/10/2004 11:30	Chloroform	ND	1	U	SW8260B	µg/L
E-02-1	TEAD-11-04-E02.1-WF	11/10/2004 11:30	Ethylbenzene	ND	1	U	SW8260B	µg/L
E-02-1	TEAD-11-04-E02.1-WF	11/10/2004 11:30	Methylene Chloride	ND	5	U	SW8260B	µg/L
E-02-1	TEAD-11-04-E02.1-WF	11/10/2004 11:30	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
E-02-1	TEAD-11-04-E02.1-WF	11/10/2004 11:30	Toluene	ND	1	U	SW8260B	µg/L
E-02-1	TEAD-11-04-E02.1-WF	11/10/2004 11:30	Trichloroethene (TCE)	15	1		SW8260B	µg/L
E-02-1	TEAD-11-04-E02.1-WF	11/10/2004 11:30	Vinyl Chloride	ND	2	U	SW8260B	µg/L
E-02-1	TEAD-11-04-E02.1-WF	11/10/2004 11:30	Xylenes	ND	1	U	SW8260B	µg/L
E-02-2	TEAD-11-04-E02.2-WF	11/10/2004 11:15	1,1 - Dichloroethane	0.26	1	J / TR	SW8260B	µg/L
E-02-2	TEAD-11-04-E02.2-WF	11/10/2004 11:15	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
E-02-2	TEAD-11-04-E02.2-WF	11/10/2004 11:15	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
E-02-2	TEAD-11-04-E02.2-WF	11/10/2004 11:15	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
E-02-2	TEAD-11-04-E02.2-WF	11/10/2004 11:15	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
E-02-2	TEAD-11-04-E02.2-WF	11/10/2004 11:15	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L

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E-02-2	TEAD-11-04-E02.2-WF	11/10/2004 11:15	1,2 Dichlorethane	ND	1	U	SW8260B	µg/L
E-02-2	TEAD-11-04-E02.2-WF	11/10/2004 11:15	Benzene	ND	1	U	SW8260B	µg/L
E-02-2	TEAD-11-04-E02.2-WF	11/10/2004 11:15	Carbon Tetrachloride	0.46	1	J / TR	SW8260B	µg/L
E-02-2	TEAD-11-04-E02.2-WF	11/10/2004 11:15	Chloroethane	ND	1	U	SW8260B	µg/L
E-02-2	TEAD-11-04-E02.2-WF	11/10/2004 11:15	Chloroform	ND	1	U	SW8260B	µg/L
E-02-2	TEAD-11-04-E02.2-WF	11/10/2004 11:15	Ethylbenzene	ND	1	U	SW8260B	µg/L
E-02-2	TEAD-11-04-E02.2-WF	11/10/2004 11:15	Methylene Chloride	ND	5	U	SW8260B	µg/L
E-02-2	TEAD-11-04-E02.2-WF	11/10/2004 11:15	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
E-02-2	TEAD-11-04-E02.2-WF	11/10/2004 11:15	Toluene	ND	1	U	SW8260B	µg/L
E-02-2	TEAD-11-04-E02.2-WF	11/10/2004 11:15	Trichloroethene (TCE)	17	1		SW8260B	µg/L
E-02-2	TEAD-11-04-E02.2-WF	11/10/2004 11:15	Vinyl Chloride	ND	2	U	SW8260B	µg/L
E-02-2	TEAD-11-04-E02.2-WF	11/10/2004 11:15	Xylenes	ND	1	U	SW8260B	µg/L
E-11	TEAD-11-04-E11-WF	11/10/2004 12:30	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
E-11	TEAD-11-04-E11-WF	11/10/2004 12:30	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
E-11	TEAD-11-04-E11-WF	11/10/2004 12:30	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
E-11	TEAD-11-04-E11-WF	11/10/2004 12:30	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
E-11	TEAD-11-04-E11-WF	11/10/2004 12:30	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
E-11	TEAD-11-04-E11-WF	11/10/2004 12:30	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
E-11	TEAD-11-04-E11-WF	11/10/2004 12:30	1,2 Dichlorethane	ND	1	U	SW8260B	µg/L
E-11	TEAD-11-04-E11-WF	11/10/2004 12:30	Benzene	ND	1	U	SW8260B	µg/L
E-11	TEAD-11-04-E11-WF	11/10/2004 12:30	Carbon Tetrachloride	ND	1	U	SW8260B	µg/L
E-11	TEAD-11-04-E11-WF	11/10/2004 12:30	Chloroethane	ND	1	U	SW8260B	µg/L
E-11	TEAD-11-04-E11-WF	11/10/2004 12:30	Chloroform	ND	1	U	SW8260B	µg/L
E-11	TEAD-11-04-E11-WF	11/10/2004 12:30	Ethylbenzene	ND	1	U	SW8260B	µg/L
E-11	TEAD-11-04-E11-WF	11/10/2004 12:30	Methylene Chloride	ND	5	U	SW8260B	µg/L
E-11	TEAD-11-04-E11-WF	11/10/2004 12:30	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
E-11	TEAD-11-04-E11-WF	11/10/2004 12:30	Toluene	ND	1	U	SW8260B	µg/L
E-11	TEAD-11-04-E11-WF	11/10/2004 12:30	Trichloroethene (TCE)	8.5	1		SW8260B	µg/L
E-11	TEAD-11-04-E11-WF	11/10/2004 12:30	Vinyl Chloride	ND	2	U	SW8260B	µg/L
E-11	TEAD-11-04-E11-WF	11/10/2004 12:30	Xylenes	ND	1	U	SW8260B	µg/L
E-12	TEAD-11-04-E12-WF	11/10/2004 12:55	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
E-12	TEAD-11-04-E12-WF	11/10/2004 12:55	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
E-12	TEAD-11-04-E12-WF	11/10/2004 12:55	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
E-12	TEAD-11-04-E12-WF	11/10/2004 12:55	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L

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WELL ID	FIELD SAMPLE ID	SAMPLING DATE	ANALYTE	RESULT	PQL	QUALIFER	METHOD	UNITS	
E-12	TEAD-11-04-E12-WF	11/10/2004 12:55	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L	
E-12	TEAD-11-04-E12-WF	11/10/2004 12:55	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L	
E-12	TEAD-11-04-E12-WF	11/10/2004 12:55	1,2 Dichloroethane	ND	1	U	SW8260B	µg/L	
E-12	TEAD-11-04-E12-WF	11/10/2004 12:55	Benzene	ND	1	U	SW8260B	µg/L	
E-12	TEAD-11-04-E12-WF	11/10/2004 12:55	Carbon Tetrachloride	ND	1	U	SW8260B	µg/L	
E-12	TEAD-11-04-E12-WF	11/10/2004 12:55	Chloroethane	ND	1	U	SW8260B	µg/L	
E-12	TEAD-11-04-E12-WF	11/10/2004 12:55	Chloroform	ND	1	U	SW8260B	µg/L	
E-12	TEAD-11-04-E12-WF	11/10/2004 12:55	Ethylbenzene	ND	1	U	SW8260B	µg/L	
E-12	TEAD-11-04-E12-WF	11/10/2004 12:55	Methylene Chloride	ND	5	U	SW8260B	µg/L	
E-12	TEAD-11-04-E12-WF	11/10/2004 12:55	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L	
E-12	TEAD-11-04-E12-WF	11/10/2004 12:55	Toluene	ND	1	U	SW8260B	µg/L	
E-12	TEAD-11-04-E12-WF	11/10/2004 12:55	Trichloroethene (TCE)	ND	1	U	SW8260B	µg/L	
E-12	TEAD-11-04-E12-WF	11/10/2004 12:55	Vinyl Chloride	ND	2	U	SW8260B	µg/L	
E-12	TEAD-11-04-E12-WF	11/10/2004 12:55	Xylenes	ND	1	U	SW8260B	µg/L	
E-13	TEAD-11-04-E13-WF	11/10/2004 10:50	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L	
E-13	TEAD-11-04-E13-WF	11/10/2004 10:50	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L	
E-13	TEAD-11-04-E13-WF	11/10/2004 10:50	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L	
E-13	TEAD-11-04-E13-WF	11/10/2004 10:50	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L	
E-13	TEAD-11-04-E13-WF	11/10/2004 10:50	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L	
E-13	TEAD-11-04-E13-WF	11/10/2004 10:50	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L	
E-13	TEAD-11-04-E13-WF	11/10/2004 10:50	1,2 Dichloroethane	ND	1	U	SW8260B	µg/L	
E-13	TEAD-11-04-E13-WF	11/10/2004 10:50	Benzene	ND	1	U	SW8260B	µg/L	
E-13	TEAD-11-04-E13-WF	11/10/2004 10:50	Carbon Tetrachloride	ND	1	U	SW8260B	µg/L	
E-13	TEAD-11-04-E13-WF	11/10/2004 10:50	Chloroethane	ND	1	U	SW8260B	µg/L	
E-13	TEAD-11-04-E13-WF	11/10/2004 10:50	Chloroform	ND	1	U	SW8260B	µg/L	
E-13	TEAD-11-04-E13-WF	11/10/2004 10:50	Ethylbenzene	ND	1	U	SW8260B	µg/L	
E-13	TEAD-11-04-E13-WF	11/10/2004 10:50	Methylene Chloride	ND	5	U	SW8260B	µg/L	
E-13	TEAD-11-04-E13-WF	11/10/2004 10:50	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L	
E-13	TEAD-11-04-E13-WF	11/10/2004 10:50	Toluene	ND	1	U	SW8260B	µg/L	
E-13	TEAD-11-04-E13-WF	11/10/2004 10:50	Trichloroethene (TCE)		2.7	1		SW8260B	µg/L
E-13	TEAD-11-04-E13-WF	11/10/2004 10:50	Vinyl Chloride	ND	2	U	SW8260B	µg/L	
E-13	TEAD-11-04-E13-WF	11/10/2004 10:50	Xylenes	ND	1	U	SW8260B	µg/L	
E-14	TEAD-11-04-E14-WF	11/10/2004 10:20	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L	
E-14	TEAD-11-04-E14-WF	11/10/2004 10:20	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L	

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WELL ID	FIELD SAMPLE ID	SAMPLING DATE	ANALYTE	RESULT	PQL	QUALIFER	METHOD	UNITS
E-14	TEAD-11-04-E14-WF	11/10/2004 10:20	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
E-14	TEAD-11-04-E14-WF	11/10/2004 10:20	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
E-14	TEAD-11-04-E14-WF	11/10/2004 10:20	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
E-14	TEAD-11-04-E14-WF	11/10/2004 10:20	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
E-14	TEAD-11-04-E14-WF	11/10/2004 10:20	1,2 Dichlorethane	ND	1	U	SW8260B	µg/L
E-14	TEAD-11-04-E14-WF	11/10/2004 10:20	Benzene	ND	1	U	SW8260B	µg/L
E-14	TEAD-11-04-E14-WF	11/10/2004 10:20	Carbon Tetrachloride	ND	1	U	SW8260B	µg/L
E-14	TEAD-11-04-E14-WF	11/10/2004 10:20	Chloroethane	ND	1	U	SW8260B	µg/L
E-14	TEAD-11-04-E14-WF	11/10/2004 10:20	Chloroform	ND	1	U	SW8260B	µg/L
E-14	TEAD-11-04-E14-WF	11/10/2004 10:20	Ethylbenzene	ND	1	U	SW8260B	µg/L
E-14	TEAD-11-04-E14-WF	11/10/2004 10:20	Methylene Chloride	ND	5	U	SW8260B	µg/L
E-14	TEAD-11-04-E14-WF	11/10/2004 10:20	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
E-14	TEAD-11-04-E14-WF	11/10/2004 10:20	Toluene	ND	1	U	SW8260B	µg/L
E-14	TEAD-11-04-E14-WF	11/10/2004 10:20	Trichloroethene (TCE)	19	1		SW8260B	µg/L
E-14	TEAD-11-04-E14-WF	11/10/2004 10:20	Vinyl Chloride	ND	2	U	SW8260B	µg/L
E-14	TEAD-11-04-E14-WF	11/10/2004 10:20	Xylenes	ND	1	U	SW8260B	µg/L
E-15	TEAD-11-04-E15-WF	11/10/2004 11:50	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
E-15	TEAD-11-04-E15-WF	11/10/2004 11:50	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
E-15	TEAD-11-04-E15-WF	11/10/2004 11:50	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
E-15	TEAD-11-04-E15-WF	11/10/2004 11:50	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
E-15	TEAD-11-04-E15-WF	11/10/2004 11:50	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
E-15	TEAD-11-04-E15-WF	11/10/2004 11:50	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
E-15	TEAD-11-04-E15-WF	11/10/2004 11:50	1,2 Dichlorethane	ND	1	U	SW8260B	µg/L
E-15	TEAD-11-04-E15-WF	11/10/2004 11:50	Benzene	ND	1	U	SW8260B	µg/L
E-15	TEAD-11-04-E15-WF	11/10/2004 11:50	Carbon Tetrachloride	ND	1	U	SW8260B	µg/L
E-15	TEAD-11-04-E15-WF	11/10/2004 11:50	Chloroethane	ND	1	U	SW8260B	µg/L
E-15	TEAD-11-04-E15-WF	11/10/2004 11:50	Chloroform	ND	1	U	SW8260B	µg/L
E-15	TEAD-11-04-E15-WF	11/10/2004 11:50	Ethylbenzene	ND	1	U	SW8260B	µg/L
E-15	TEAD-11-04-E15-WF	11/10/2004 11:50	Methylene Chloride	ND	5	U	SW8260B	µg/L
E-15	TEAD-11-04-E15-WF	11/10/2004 11:50	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
E-15	TEAD-11-04-E15-WF	11/10/2004 11:50	Toluene	ND	1	U	SW8260B	µg/L
E-15	TEAD-11-04-E15-WF	11/10/2004 11:50	Trichloroethene (TCE)	2	1		SW8260B	µg/L
E-15	TEAD-11-04-E15-WF	11/10/2004 11:50	Vinyl Chloride	ND	2	U	SW8260B	µg/L
E-15	TEAD-11-04-E15-WF	11/10/2004 11:50	Xylenes	ND	1	U	SW8260B	µg/L

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WELL ID	FIELD SAMPLE ID	SAMPLING DATE	ANALYTE	RESULT	PQL	QUALIFER	METHOD	UNITS
EFF	TEAD-11-04-EFF-WF	11/10/2004 13:55	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
EFF	TEAD-11-04-EFF-WF	11/10/2004 13:55	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
EFF	TEAD-11-04-EFF-WF	11/10/2004 13:55	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
EFF	TEAD-11-04-EFF-WF	11/10/2004 13:55	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
EFF	TEAD-11-04-EFF-WF	11/10/2004 13:55	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
EFF	TEAD-11-04-EFF-WF	11/10/2004 13:55	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
EFF	TEAD-11-04-EFF-WF	11/10/2004 13:55	1,2 Dichlorethane	ND	1	U	SW8260B	µg/L
EFF	TEAD-11-04-EFF-WF	11/10/2004 13:55	Benzene	ND	1	U	SW8260B	µg/L
EFF	TEAD-11-04-EFF-WF	11/10/2004 13:55	Carbon Tetrachloride	ND	1	U	SW8260B	µg/L
EFF	TEAD-11-04-EFF-WF	11/10/2004 13:55	Chloroethane	ND	1	U	SW8260B	µg/L
EFF	TEAD-11-04-EFF-WF	11/10/2004 13:55	Chloroform	ND	1	U	SW8260B	µg/L
EFF	TEAD-11-04-EFF-WF	11/10/2004 13:55	Ethylbenzene	ND	1	U	SW8260B	µg/L
EFF	TEAD-11-04-EFF-WF	11/10/2004 13:55	Methylene Chloride	ND	5	U	SW8260B	µg/L
EFF	TEAD-11-04-EFF-WF	11/10/2004 13:55	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
EFF	TEAD-11-04-EFF-WF	11/10/2004 13:55	Toluene	ND	1	U	SW8260B	µg/L
EFF	TEAD-11-04-EFF-WF	11/10/2004 13:55	Trichloroethene (TCE)	ND	1	U	SW8260B	µg/L
INF	TEAD-11-04-INF-WF	11/10/2004 13:40	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
INF	TEAD-11-04-INF-WF	11/10/2004 13:40	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
INF	TEAD-11-04-INF-WF	11/10/2004 13:40	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
INF	TEAD-11-04-INF-WF	11/10/2004 13:40	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
INF	TEAD-11-04-INF-WF	11/10/2004 13:40	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
INF	TEAD-11-04-INF-WF	11/10/2004 13:40	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
INF	TEAD-11-04-INF-WF	11/10/2004 13:40	1,2 Dichlorethane	ND	1	U	SW8260B	µg/L
INF	TEAD-11-04-INF-WF	11/10/2004 13:40	Benzene	ND	1	U	SW8260B	µg/L
INF	TEAD-11-04-INF-WF	11/10/2004 13:40	Carbon Tetrachloride	ND	1	U	SW8260B	µg/L
INF	TEAD-11-04-INF-WF	11/10/2004 13:40	Chloroethane	ND	1	U	SW8260B	µg/L
INF	TEAD-11-04-INF-WF	11/10/2004 13:40	Chloroform	ND	1	U	SW8260B	µg/L
INF	TEAD-11-04-INF-WF	11/10/2004 13:40	Ethylbenzene	ND	1	U	SW8260B	µg/L
INF	TEAD-11-04-INF-WF	11/10/2004 13:40	Methylene Chloride	ND	5	U	SW8260B	µg/L
INF	TEAD-11-04-INF-WF	11/10/2004 13:40	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
INF	TEAD-11-04-INF-WF	11/10/2004 13:40	Toluene	ND	1	U	SW8260B	µg/L
INF	TEAD-11-04-INF-WF	11/10/2004 13:40	Trichloroethene (TCE)		6	1		

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WELL ID	FIELD SAMPLE ID	SAMPLING DATE	ANALYTE	RESULT	PQL	QUALIFER	METHOD	UNITS
INF	TEAD-11-04-INF-WF	11/10/2004 13:40	Vinyl Chloride	ND	2	U	SW8260B	µg/L
INF	TEAD-11-04-INF-WF	11/10/2004 13:40	Xylenes	ND	1	U	SW8260B	µg/L
N-114-88	TEAD-11-04-N11488-DF-324	11/23/2004 11:15	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
N-114-88	TEAD-11-04-N11488-DF-324	11/23/2004 11:15	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
N-114-88	TEAD-11-04-N11488-DF-324	11/23/2004 11:15	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
N-114-88	TEAD-11-04-N11488-DF-324	11/23/2004 11:15	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
N-114-88	TEAD-11-04-N11488-DF-324	11/23/2004 11:15	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
N-114-88	TEAD-11-04-N11488-DF-324	11/23/2004 11:15	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
N-114-88	TEAD-11-04-N11488-DF-324	11/23/2004 11:15	1,2 Dicholorethane	ND	1	U	SW8260B	µg/L
N-114-88	TEAD-11-04-N11488-DF-324	11/23/2004 11:15	Benzene	ND	1	U	SW8260B	µg/L
N-114-88	TEAD-11-04-N11488-DF-324	11/23/2004 11:15	Carbon Tetrachloride	ND	1	U	SW8260B	µg/L
N-114-88	TEAD-11-04-N11488-DF-324	11/23/2004 11:15	Chloroethane	ND	1	U	SW8260B	µg/L
N-114-88	TEAD-11-04-N11488-DF-324	11/23/2004 11:15	Chloroform	ND	1	U	SW8260B	µg/L
N-114-88	TEAD-11-04-N11488-DF-324	11/23/2004 11:15	Ethylbenzene	ND	1	U	SW8260B	µg/L
N-114-88	TEAD-11-04-N11488-DF-324	11/23/2004 11:15	Methylene Chloride	ND	5	U	SW8260B	µg/L
N-114-88	TEAD-11-04-N11488-DF-324	11/23/2004 11:15	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
N-114-88	TEAD-11-04-N11488-DF-324	11/23/2004 11:15	Toluene	ND	1	U	SW8260B	µg/L
N-114-88	TEAD-11-04-N11488-DF-324	11/23/2004 11:15	Trichloroethene (TCE)	ND	1	U	SW8260B	µg/L
N-114-88	TEAD-11-04-N11488-DF-324	11/23/2004 11:15	Vinyl Chloride	ND	2	U	SW8260B	µg/L
N-114-88	TEAD-11-04-N11488-DF-324	11/23/2004 11:15	Xylenes	ND	1	U	SW8260B	µg/L
N-115-88	TEAD-11-04-N11588-DF-285	11/23/2004 12:20	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
N-115-88	TEAD-11-04-N11588-DF-285	11/23/2004 12:20	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
N-115-88	TEAD-11-04-N11588-DF-285	11/23/2004 12:20	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
N-115-88	TEAD-11-04-N11588-DF-285	11/23/2004 12:20	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
N-115-88	TEAD-11-04-N11588-DF-285	11/23/2004 12:20	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
N-115-88	TEAD-11-04-N11588-DF-285	11/23/2004 12:20	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
N-115-88	TEAD-11-04-N11588-DF-285	11/23/2004 12:20	1,2 Dicholorethane	ND	1	U	SW8260B	µg/L
N-115-88	TEAD-11-04-N11588-DF-285	11/23/2004 12:20	Benzene	ND	1	U	SW8260B	µg/L
N-115-88	TEAD-11-04-N11588-DF-285	11/23/2004 12:20	Carbon Tetrachloride	ND	1	U	SW8260B	µg/L
N-115-88	TEAD-11-04-N11588-DF-285	11/23/2004 12:20	Chloroethane	ND	1	U	SW8260B	µg/L
N-115-88	TEAD-11-04-N11588-DF-285	11/23/2004 12:20	Chloroform	ND	1	U	SW8260B	µg/L
N-115-88	TEAD-11-04-N11588-DF-285	11/23/2004 12:20	Ethylbenzene	ND	1	U	SW8260B	µg/L
N-115-88	TEAD-11-04-N11588-DF-285	11/23/2004 12:20	Methylene Chloride	ND	5	U	SW8260B	µg/L
N-115-88	TEAD-11-04-N11588-DF-285	11/23/2004 12:20	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L

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WELL ID	FIELD SAMPLE ID	SAMPLING DATE	ANALYTE	RESULT	PQL	QUALIFER	METHOD	UNITS
N-115-88	TEAD-11-04-N11588-DF-285	11/23/2004 12:20	Toluene	ND	1	U	SW8260B	µg/L
N-115-88	TEAD-11-04-N11588-DF-285	11/23/2004 12:20	Trichloroethene (TCE)	0.27	1	J / TR	SW8260B	µg/L
N-115-88	TEAD-11-04-N11588-DF-285	11/23/2004 12:20	Vinyl Chloride	ND	2	U	SW8260B	µg/L
N-115-88	TEAD-11-04-N11588-DF-285	11/23/2004 12:20	Xylenes	ND	1	U	SW8260B	µg/L
N-116-88	TEAD-11-04-N11688-DF-285	11/23/2004 12:40	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
N-116-88	TEAD-11-04-N11688-DF-285	11/23/2004 12:40	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
N-116-88	TEAD-11-04-N11688-DF-285	11/23/2004 12:40	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
N-116-88	TEAD-11-04-N11688-DF-285	11/23/2004 12:40	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
N-116-88	TEAD-11-04-N11688-DF-285	11/23/2004 12:40	1,2 Dichloroethene	2.4	1		SW8260B	µg/L
N-116-88	TEAD-11-04-N11688-DF-285	11/23/2004 12:40	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
N-116-88	TEAD-11-04-N11688-DF-285	11/23/2004 12:40	1,2 Dichloroethane	ND	1	U	SW8260B	µg/L
N-116-88	TEAD-11-04-N11688-DF-285	11/23/2004 12:40	Benzene	ND	1	U	SW8260B	µg/L
N-116-88	TEAD-11-04-N11688-DF-285	11/23/2004 12:40	Carbon Tetrachloride	ND	1	U	SW8260B	µg/L
N-116-88	TEAD-11-04-N11688-DF-285	11/23/2004 12:40	Chloroethane	ND	1	U	SW8260B	µg/L
N-116-88	TEAD-11-04-N11688-DF-285	11/23/2004 12:40	Chloroform	0.29	1	J / TR	SW8260B	µg/L
N-116-88	TEAD-11-04-N11688-DF-285	11/23/2004 12:40	Ethylbenzene	ND	1	U	SW8260B	µg/L
N-116-88	TEAD-11-04-N11688-DF-285	11/23/2004 12:40	Methylene Chloride	ND	5	U	SW8260B	µg/L
N-116-88	TEAD-11-04-N11688-DF-285	11/23/2004 12:40	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
N-116-88	TEAD-11-04-N11688-DF-285	11/23/2004 12:40	Toluene	ND	1	U	SW8260B	µg/L
N-116-88	TEAD-11-04-N11688-DF-285	11/23/2004 12:40	Trichloroethene (TCE)	16	1		SW8260B	µg/L
N-116-88	TEAD-11-04-N11688-DF-285	11/23/2004 12:40	Vinyl Chloride	ND	2	U	SW8260B	µg/L
N-116-88	TEAD-11-04-N11688-DF-285	11/23/2004 12:40	Xylenes	ND	1	U	SW8260B	µg/L
N-117-88	TEAD-11-04-N11788-DF-237	11/23/2004 12:00	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
N-117-88	TEAD-11-04-N11788-DF-237	11/23/2004 12:00	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
N-117-88	TEAD-11-04-N11788-DF-237	11/23/2004 12:00	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
N-117-88	TEAD-11-04-N11788-DF-237	11/23/2004 12:00	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
N-117-88	TEAD-11-04-N11788-DF-237	11/23/2004 12:00	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
N-117-88	TEAD-11-04-N11788-DF-237	11/23/2004 12:00	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
N-117-88	TEAD-11-04-N11788-DF-237	11/23/2004 12:00	1,2 Dichloroethane	ND	1	U	SW8260B	µg/L
N-117-88	TEAD-11-04-N11788-DF-237	11/23/2004 12:00	Benzene	ND	1	U	SW8260B	µg/L
N-117-88	TEAD-11-04-N11788-DF-237	11/23/2004 12:00	Carbon Tetrachloride	ND	1	U	SW8260B	µg/L
N-117-88	TEAD-11-04-N11788-DF-237	11/23/2004 12:00	Chloroethane	ND	1	U	SW8260B	µg/L
N-117-88	TEAD-11-04-N11788-DF-237	11/23/2004 12:00	Chloroform	ND	1	U	SW8260B	µg/L
N-117-88	TEAD-11-04-N11788-DF-237	11/23/2004 12:00	Ethylbenzene	ND	1	U	SW8260B	µg/L

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WELL ID	FIELD SAMPLE ID	SAMPLING DATE	ANALYTE	RESULT	PQL	QUALIFER	METHOD	UNITS
N-117-88	TEAD-11-04-N11788-DF-237	11/23/2004 12:00	Methylene Chloride	ND	5	U	SW8260B	µg/L
N-117-88	TEAD-11-04-N11788-DF-237	11/23/2004 12:00	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
N-117-88	TEAD-11-04-N11788-DF-237	11/23/2004 12:00	Toluene	ND	1	U	SW8260B	µg/L
N-117-88	TEAD-11-04-N11788-DF-237	11/23/2004 12:00	Trichloroethene (TCE)	1.8	1		SW8260B	µg/L
N-117-88	TEAD-11-04-N11788-DF-237	11/23/2004 12:00	Vinyl Chloride	ND	2	U	SW8260B	µg/L
N-117-88	TEAD-11-04-N11788-DF-237	11/23/2004 12:00	Xylenes	ND	1	U	SW8260B	µg/L
N-120-88	TEAD-11-04-N12088-DF-321	11/23/2004 11:00	1,1 - Dichloroethane	0.21	1	J / TR	SW8260B	µg/L
N-120-88	TEAD-11-04-N12088-DF-321	11/23/2004 11:00	1,1 - Dichloroethene	0.89	1	J / TR	SW8260B	µg/L
N-120-88	TEAD-11-04-N12088-DF-321	11/23/2004 11:00	1,1,1 - Trichloroethane	0.97	1	J / TR	SW8260B	µg/L
N-120-88	TEAD-11-04-N12088-DF-321	11/23/2004 11:00	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
N-120-88	TEAD-11-04-N12088-DF-321	11/23/2004 11:00	1,2 Dichloroethene	2.5	1		SW8260B	µg/L
N-120-88	TEAD-11-04-N12088-DF-321	11/23/2004 11:00	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
N-120-88	TEAD-11-04-N12088-DF-321	11/23/2004 11:00	1,2 Dichloroethane	ND	1	U	SW8260B	µg/L
N-120-88	TEAD-11-04-N12088-DF-321	11/23/2004 11:00	Benzene	ND	1	U	SW8260B	µg/L
N-120-88	TEAD-11-04-N12088-DF-321	11/23/2004 11:00	Carbon Tetrachloride	ND	1	U	SW8260B	µg/L
N-120-88	TEAD-11-04-N12088-DF-321	11/23/2004 11:00	Chloroethane	ND	1	U	SW8260B	µg/L
N-120-88	TEAD-11-04-N12088-DF-321	11/23/2004 11:00	Chloroform	ND	1	U	SW8260B	µg/L
N-120-88	TEAD-11-04-N12088-DF-321	11/23/2004 11:00	Ethylbenzene	ND	1	U	SW8260B	µg/L
N-120-88	TEAD-11-04-N12088-DF-321	11/23/2004 11:00	Methylene Chloride	ND	5	U	SW8260B	µg/L
N-120-88	TEAD-11-04-N12088-DF-321	11/23/2004 11:00	Tetrachloroethane (PCE)	11	1		SW8260B	µg/L
N-120-88	TEAD-11-04-N12088-DF-321	11/23/2004 11:00	Toluene	ND	1	U	SW8260B	µg/L
N-120-88	TEAD-11-04-N12088-DF-321	11/23/2004 11:00	Trichloroethene (TCE)	480	100		SW8260B	µg/L
N-120-88	TEAD-11-04-N12088-DF-321	11/23/2004 11:00	Vinyl Chloride	ND	2	U	SW8260B	µg/L
N-120-88	TEAD-11-04-N12088-DF-321	11/23/2004 11:00	Xylenes	ND	1	U	SW8260B	µg/L
N-135-90	TEAD-11-04-N13590-DF-240	11/23/2004 11:30	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
N-135-90	TEAD-11-04-N13590-DF-240	11/23/2004 11:30	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
N-135-90	TEAD-11-04-N13590-DF-240	11/23/2004 11:30	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
N-135-90	TEAD-11-04-N13590-DF-240	11/23/2004 11:30	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
N-135-90	TEAD-11-04-N13590-DF-240	11/23/2004 11:30	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
N-135-90	TEAD-11-04-N13590-DF-240	11/23/2004 11:30	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
N-135-90	TEAD-11-04-N13590-DF-240	11/23/2004 11:30	1,2 Dichloroethane	ND	1	U	SW8260B	µg/L
N-135-90	TEAD-11-04-N13590-DF-240	11/23/2004 11:30	Benzene	ND	1	U	SW8260B	µg/L
N-135-90	TEAD-11-04-N13590-DF-240	11/23/2004 11:30	Carbon Tetrachloride	ND	1	U	SW8260B	µg/L
N-135-90	TEAD-11-04-N13590-DF-240	11/23/2004 11:30	Chloroethane	ND	1	U	SW8260B	µg/L

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WELL ID	FIELD SAMPLE ID	SAMPLING DATE	ANALYTE	RESULT	PQL	QUALIFER	METHOD	UNITS
N-135-90	TEAD-11-04-N13590-DF-240	11/23/2004 11:30	Chloroform	ND	1	U	SW8260B	µg/L
N-135-90	TEAD-11-04-N13590-DF-240	11/23/2004 11:30	Ethylbenzene	ND	1	U	SW8260B	µg/L
N-135-90	TEAD-11-04-N13590-DF-240	11/23/2004 11:30	Methylene Chloride	ND	5	U	SW8260B	µg/L
N-135-90	TEAD-11-04-N13590-DF-240	11/23/2004 11:30	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
N-135-90	TEAD-11-04-N13590-DF-240	11/23/2004 11:30	Toluene	ND	1	U	SW8260B	µg/L
N-135-90	TEAD-11-04-N13590-DF-240	11/23/2004 11:30	Trichloroethene (TCE)	5.5	1		SW8260B	µg/L
N-135-90	TEAD-11-04-N13590-DF-240	11/23/2004 11:30	Vinyl Chloride	ND	2	U	SW8260B	µg/L
N-135-90	TEAD-11-04-N13590-DF-240	11/23/2004 11:30	Xylenes	ND	1	U	SW8260B	µg/L
N-150-97	TEAD-11-04-N15097-DF-281	11/23/2004 10:45	1,1 - Dichloroethane	0.23	1	J / TR	SW8260B	µg/L
N-150-97	TEAD-11-04-N15097-DF-281	11/23/2004 10:45	1,1 - Dichloroethene	0.29	1	J / TR	SW8260B	µg/L
N-150-97	TEAD-11-04-N15097-DF-281	11/23/2004 10:45	1,1,1 - Trichloroethane	0.32	1	J / TR	SW8260B	µg/L
N-150-97	TEAD-11-04-N15097-DF-281	11/23/2004 10:45	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
N-150-97	TEAD-11-04-N15097-DF-281	11/23/2004 10:45	1,2 Dichloroethene	8.6	1		SW8260B	µg/L
N-150-97	TEAD-11-04-N15097-DF-281	11/23/2004 10:45	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
N-150-97	TEAD-11-04-N15097-DF-281	11/23/2004 10:45	1,2 Dichlorethane	ND	1	U	SW8260B	µg/L
N-150-97	TEAD-11-04-N15097-DF-281	11/23/2004 10:45	Benzene	ND	1	U	SW8260B	µg/L
N-150-97	TEAD-11-04-N15097-DF-281	11/23/2004 10:45	Carbon Tetrachloride	ND	1	U	SW8260B	µg/L
N-150-97	TEAD-11-04-N15097-DF-281	11/23/2004 10:45	Chloroethane	ND	1	U	SW8260B	µg/L
N-150-97	TEAD-11-04-N15097-DF-281	11/23/2004 10:45	Chloroform	0.34	1	J / TR	SW8260B	µg/L
N-150-97	TEAD-11-04-N15097-DF-281	11/23/2004 10:45	Ethylbenzene	ND	1	U	SW8260B	µg/L
N-150-97	TEAD-11-04-N15097-DF-281	11/23/2004 10:45	Methylene Chloride	ND	5	U	SW8260B	µg/L
N-150-97	TEAD-11-04-N15097-DF-281	11/23/2004 10:45	Tetrachloroethane (PCE)	3.9	1		SW8260B	µg/L
N-150-97	TEAD-11-04-N15097-DF-281	11/23/2004 10:45	Toluene	ND	1	U	SW8260B	µg/L
N-150-97	TEAD-11-04-N15097-DF-281	11/23/2004 10:45	Trichloroethene (TCE)	190	100		SW8260B	µg/L
N-150-97	TEAD-11-04-N15097-DF-281	11/23/2004 10:45	Vinyl Chloride	ND	2	U	SW8260B	µg/L
N-150-97	TEAD-11-04-N15097-DF-281	11/23/2004 10:45	Xylenes	ND	1	U	SW8260B	µg/L
T-06	TEAD-11-04-T06-DF-261	11/22/2004 11:00	1,1 - Dichloroethane	ND	1	U	SW8260B	µg/L
T-06	TEAD-11-04-T06-DF-261	11/22/2004 11:00	1,1 - Dichloroethene	ND	1	U	SW8260B	µg/L
T-06	TEAD-11-04-T06-DF-261	11/22/2004 11:00	1,1,1 - Trichloroethane	ND	1	U	SW8260B	µg/L
T-06	TEAD-11-04-T06-DF-261	11/22/2004 11:00	1,1,2,2-Tetrachloroethane	ND	1	U	SW8260B	µg/L
T-06	TEAD-11-04-T06-DF-261	11/22/2004 11:00	1,2 Dichloroethene	ND	1	U	SW8260B	µg/L
T-06	TEAD-11-04-T06-DF-261	11/22/2004 11:00	1,2 Dichloropropane	ND	1	U	SW8260B	µg/L
T-06	TEAD-11-04-T06-DF-261	11/22/2004 11:00	1,2 Dichlorethane	ND	1	U	SW8260B	µg/L
T-06	TEAD-11-04-T06-DF-261	11/22/2004 11:00	Benzene	ND	1	U	SW8260B	µg/L

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WELL ID	FIELD SAMPLE ID	SAMPLING DATE	ANALYTE	RESULT	PQL	QUALIFER	METHOD	UNITS
T-06	TEAD-11-04-T06-DF-261	11/22/2004 11:00	Carbon Tetrachloride	ND	1	U	SW8260B	µg/L
T-06	TEAD-11-04-T06-DF-261	11/22/2004 11:00	Chloroethane	ND	1	U	SW8260B	µg/L
T-06	TEAD-11-04-T06-DF-261	11/22/2004 11:00	Chloroform	ND	1	U	SW8260B	µg/L
T-06	TEAD-11-04-T06-DF-261	11/22/2004 11:00	Ethylbenzene	ND	1	U	SW8260B	µg/L
T-06	TEAD-11-04-T06-DF-261	11/22/2004 11:00	Methylene Chloride	ND	5	U	SW8260B	µg/L
T-06	TEAD-11-04-T06-DF-261	11/22/2004 11:00	Tetrachloroethane (PCE)	ND	1	U	SW8260B	µg/L
T-06	TEAD-11-04-T06-DF-261	11/22/2004 11:00	Toluene	ND	1	U	SW8260B	µg/L
T-06	TEAD-11-04-T06-DF-261	11/22/2004 11:00	Trichloroethene (TCE)	22	1		SW8260B	µg/L
T-06	TEAD-11-04-T06-DF-261	11/22/2004 11:00	Vinyl Chloride	ND	2	U	SW8260B	µg/L
T-06	TEAD-11-04-T06-DF-261	11/22/2004 11:00	Xylenes	ND	1	U	SW8260B	µg/L

APPENDIX B

Quality Control Summary Report

April 14, 2005

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LIST OF ACRONYMS

%D	percent difference
%R	percent recovery
CDQMP	Chemical Data Quality Management Plan
CVS	calibration verification standards
DQO	data quality objective
EMAX	EMAX Laboratories Inc.
GC/MS	gas chromatography/mass spectrometry
ICAL	initial calibration
LCS	laboratory control sample
LCD	laboratory control duplicate
MDL	method detection limit
MS/MSD	matrix spike/matrix spike duplicate
MWH	MWH Americas, Inc
PARCC	precision, accuracy, representativeness, comparability, and completeness
QC	quality control
RCRA	Resource Conservation and Reduction Act
RL	reporting limit
RPD	relative percent difference
RRF	relative response factor
RSD	relative standard deviation
SIM	selective ion monitoring
SOP	standard operating procedure
SPCC	system performance check compound
SWMU	Solid Waste Management Unit
TCE	trichloroethene
TEAD	Tooele Army Depot
VOC	volatile organic compound
USACE	United States Army Corps of Engineers
U.S. EPA	United States Environmental Protection Agency

B1.0 DATA VERIFICATION AND VALIDATION

B1.1 INTRODUCTION

B1.1.0.1. This report presents the results of the verification and validation of analytical data for groundwater samples collected at Solid Waste Management Unit (SWMU) 2 Tooele Army Depot (TEAD), Utah as part of the groundwater monitoring program. Samples were collected between November 10 and 23, 2004. EMAX Laboratories Inc. (EMAX) of Torrance, California provided analytical support for this project. The MWH Americas, Inc (MWH) Project Chemist conducted a Level III verification for all data and conducted a Level IV data verification for 10 percent of the data.

B1.1.0.2. Samples were analyzed for volatile organic compounds (VOCs) by method SW-846/8260B and 1,4-dioxane by SW-846/8270C selective ion monitoring (SIM). The analytical results of these samples are presented by method in Tables B-1a and B-1b.

B1.1.0.3. The analytical results were evaluated against the project-specific data quality objectives (DQOs), which are quantitative and qualitative statements that specify data quality and are expressed in terms of precision, accuracy, representativeness, comparability, and completeness (PARCC). This data evaluation is presented in terms of the PARCC criteria and was based on the following:

- Utah Department of Environmental Quality, Division of Solid and Hazardous Waste, 2001. Tooele Army Depot Post-Closure Permit, (United States Environmental Protection Agency (U.S. EPA) Identification Number, UT3213820894).
- *Chemical Data Quality Management Plan (CDQMP)* Tooele Army Depot, Final Revision 2 (United States Army Corps of Engineers [USACE], 1999).

B1.1.0.4. Data verification is the process of evaluating the quality control (QC) parameters against the criteria established by the CDQMP, and qualifying those data

points where the QC criteria is outside the established criteria. The following QC parameters were evaluated:

- Sample extraction and analytical holding times
- Method, trip, and equipment rinseate blank sample results
- Reporting limits (RLs)
- Field duplicate sample results
- Tune standard results
- Initial calibration (ICAL)/continuing calibration verification standards (CVS) results
- Surrogate spike recoveries
- Laboratory control sample (LCS)/laboratory control sample duplicate (LCD) results
- Matrix spike/matrix spike duplicate (MS/MSD) sample results
- Internal standard results.

Sample data that were qualified due to the data verification are listed in Table B-2. Quality control data that were outside acceptance criteria that did not result in qualified sample data are listed in Table B-3. Sample batching information is listed in Table B-4.

B1.1.0.5. In addition to the Level III data verification process, a Level IV verification was conducted for 10 percent of the data in accordance with the CDQMP. In addition to the QC parameters reviewed during the Level III verification process, the following was conducted as part of the Level IV verification:

- Review of raw data from the instrument (i.e. chromatograms, quantitation reports, spectra).
- Back check of all calculations.

- Review of sample preparation and analytical logs.

B1.1.0.6. A qualitative assessment was also conducted to evaluate whether the verified data were of sufficient quality to support the project objectives (i.e., end use), which is compliance with the quarterly monitoring requirements specified in Module V.D.1.e of Tooele’s Resource Conservation and Reduction Act (RCRA) Post Closure Permit for post-closure and corrective action of the Industrial Waste Lagoon and other SWMUs.

B1.1.07. The validation process was conducted by assessing the following:

- Were all data that were scheduled for this project collected, i.e., were groundwater samples collected from groundwater as it enters and exits the groundwater treatment system, and from every active extraction well?
- Did the sample RLs or method detection limits (MDLs) meet the permit specifications?
- Were data qualified with an “UJ” flag as an estimated RL and did these data impact the decision making process, i.e., would the same decision have been made if the data had not been “UJ” flagged?
- Was the data completeness goal of 90 percent for this project met, i.e., were sufficient data of sufficient quality collected to meet the project completeness goal?

B1.1.0.8. The following sections describe the data verification procedures, discuss data that have significant QC problems (i.e., rejected data), and describe any CDQMP deviations.

B2.0 DATA VERIFICATION/VALIDATION RESULTS

B2.1 COMPLETENESS EVALUATION

B2.1.1 Sampling Completeness

B2.1.1.1 All samples and QC samples were collected as scheduled resulting in 100 percent completeness for this project.

B2.1.2 Analytical Completeness

B2.1.2.1. Analytical completeness was evaluated on a per analyte basis using the following equation:

$$\text{Completeness} = \frac{\text{Number of valid data points}}{\text{Total number of measurements}} \times 100$$

Where: The number of valid data points is the total number of valid analytical measurements based on the precision, accuracy, and holding time evaluation.

Based on the results of the data verification described in the following sections, all data are considered valid as qualified. Analytical completeness was 100 percent, which met the analytical completeness goal of 90 percent for all analytes.

B2.1.3 Data Validation in Relation to Completeness

B2.1.3.1. The results of the data validation in relation to completeness indicate that all samples were collected as scheduled and analyzed in accordance with the CDQMP and the RCRA permit.

B2.2 REPRESENTATIVENESS EVALUATION

B2.2.0.1. Representativeness is a qualitative expression of the degree to which sample data accurately and precisely represent a characteristic of a population, a sampling point, or an environmental condition. Representativeness is maximized by ensuring that, for a given project, the number and location of sampling points and the sample collection and analysis techniques are appropriate for the specific investigation, and that the sampling and analysis program provides information that reflects "true" site conditions. Laboratory data were evaluated for representativeness by assessing compliance with the following:

- *Chemical Data Quality Management Plan (CDQMP)* Tooele Army Depot, Final Revision 2 (USACE, 1999).
- Sample preservation and holding time criteria
- Method, trip, and equipment rinseate blank criteria
- Field duplicate sample criteria
- Reporting limit criteria.

B2.2.1 CDQMP Compliance Evaluation

B2.2.1.1. Based on the data verification, all samples were analyzed following the quality control criteria specified in the CDQMP.

B2.2.2 Sample Preservation Evaluation

B2.2.2.1. Temperature blanks were included with each sample cooler for measurement upon receipt at the laboratory to assess whether the samples met the temperature requirement. Temperature criterion was met for all samples.

B2.2.3 Holding Time Evaluation

B2.2.3.1. Holding time reflects the length of time after sample collection that a sample or extract remains representative of environmental conditions. Depending on the analysis, either one or two holding times were evaluated. For those analyses that do not require sample extraction, the length of time between sample collection and analysis was evaluated. For analyses that require sample extraction prior to analysis, the length of time from sample collection to sample extraction and the length of time from sample extraction to sample analysis were evaluated. Holding times were compared to those established in the CDQMP. Data for samples that were extracted and analyzed within holding time criteria are considered representative. Holding times are presented in Table B-5. All extraction and analytical holding times were met for this sampling round.

B2.2.4 Sample Blanks Evaluation

B2.2.4.1 If target analytes were detected in a blank and an associated investigative sample, data were evaluated and qualified using the following criteria:

- **Non-Common Laboratory Contaminants.** If a target analyte was detected in a blank and in an associated sample, and the concentration of the analyte in the environmental sample was less than five times the concentration detected in the blank, the detection of the analyte in the sample was considered a false positive. The sample datum was qualified with a “UB” flag to indicate that the datum is considered not detected at the concentration reported based on blank data. If the concentration of a target analyte in the environmental sample was greater than five times the concentration detected in an associated blank, the sample datum was with a “B” flag to indicate the analyte was detected in an associated blank.
- **Common Laboratory Contaminants.** If a target analyte was detected in a blank and in an associated sample, and the concentration of the analyte in the environmental sample was less than ten times the concentration detected in the blank, the detection of the analyte in the sample was considered a false

positive. The sample datum was qualified with a “UB” flag to indicate the datum is considered not detected at the reported concentration based on blank data. If the concentration of a target analyte in the environmental sample was greater than ten times the concentration detected in an associated blank, the sample datum was qualified with a “B” flag to indicate the analyte was detected in an associated blank.

B2.2.4.2. Method Blanks. The method blank contains all the reagents used in the processing of samples and is carried through the complete analytical procedure used for the samples. Method blank sample data are presented in Tables B-6a and B-6b. No analytes were detected in the method blank samples.

B2.2.4.3. Trip Blank Evaluation. A trip blank accompanied each sample cooler and was analyzed to verify that the samples were not contaminated by the sample containers or other samples during transport to and/or at the laboratory. The trip blank accompanied the empty bottle sets to the site and consisted of a set of VOC sample bottles that had been filled by the laboratory with organic-free water. The trip blanks remained unopened and with the samples during sample collection and shipping. The trip blank data is presented in Table B-7. No analytes were detected in the trip blanks.

B2.2.4.4. Equipment Rinseate Blanks. Equipment rinseate blank samples were collected by rinsing decontaminated sampling equipment with source water to assess possible target analyte carry-over between environmental sample locations. The same criteria that were used to evaluate the sample blanks described previously were used to evaluate the equipment rinseate blank and associated sample data. The equipment rinseate blank sample results are listed in Table B-8. No Analytes were detected in the equipment rinseate blank samples.

B2.2.5 Reporting Limit Evaluation

B2.2.5.1. The RL is the lowest concentration that can be reliably achieved within limits of precision and accuracy during routine instrument operating conditions and is based on the method detection limit (MDL) for each analyte.

B2.2.5.2. The RLs reported by the laboratory were compared to the criteria specified in the CDQMP. All sample RLs were less than or equal to those listed in the CDQMP. If a target compound was detected between the MDL and RL, the result was qualified with a “T” flag to indicate the data are estimated and reflect a value between the MDL and RL.

B2.2.6 Field Duplicate Evaluation

B2.2.6.1. Field duplicate samples were collected and analyzed to evaluate sampling and analytical representativeness and precision. Because precision is affected by several variables including sample heterogeneity, sample collection procedures, sample preparation, and sample analysis, the results of field duplicates were used as additional evidence to support data quality rather than as a basis for accepting or rejecting data.

B2.2.6.2. The relative percent difference (RPD) was calculated only for those analytes that were detected above the reporting limit in both the environmental and field duplicate samples. The field duplicate data are presented by analytical method in Tables B-9a and B-9b. A review of the sample results and the RPDs indicate good agreement between the sample and its respective duplicate.

B2.2.7 Data Validation Results in Relation to Representativeness

B2.2.7.1. The results of the data validation in relation to representativeness indicate that the data are of sufficient quality to support end use. All samples were collected as scheduled and analyzed in accordance with the CDQMP and the RCRA permit.

B2.3 ACCURACY EVALUATION

B2.3.0.1. Accuracy is a measure of the bias of a method or the level of agreement between a measurement and a known true value. Accuracy is evaluated by percent recovery (%R), which is calculated using the following equation:

$$\%R = \frac{A - B}{C} \times 100$$

Where: A = the measured concentration of the spiked analyte in a spiked sample

B = the measured concentration of the spiked analyte in an unspiked sample

C = the concentration of the analyte used for spiking.

Laboratory accuracy was evaluated using the tune standard results, instrument calibration results, internal standard results, and surrogate, MS/MSD, LCS, LCD spiking compound recoveries.

B2.3.1 Tune Standard Evaluation

B2.3.1.1 For gas chromatography/mass spectroscopy (GC/MS) methods the analytical instruments must be tuned to demonstrate that the instrument is functioning such that it will detect the compounds of interest during analysis. Sample analysis can not proceed unless the tune standard criteria are met; otherwise sample data are flagged with an “R” and are not usable. All tune standards were within acceptance criteria.

B2.3.2 Initial and Continuing Calibration Evaluation

B2.3.2.1. ICAL and CVS were analyzed prior to and during sample analysis as specified by the analytical method. The ICAL is used to demonstrate linearity of instrument calibration and the CVS is used to assess whether the ICAL remains valid. The ICAL

and CVS results were evaluated against the method specific QC criteria. The following criteria were used for ICAL and CVS evaluation:

- **ICAL Relative Standard Deviation Outside Acceptance Criteria.** If the relative standard deviation (RSD) was outside the acceptance criterion, the calibration curve was evaluated to determine which standard caused the non-conformance. If the lowest concentration standard of the calibration curve was not the cause of the non-conformance, and the laboratory demonstrated that the RL was met, non-detect data were not qualified. For detected compounds if the RSD exceeded the acceptance criteria, the data are considered estimated with an unknown bias and qualified with a “J” flag. All ICAL RSDs were within acceptance criteria.
- **ICAL Coefficient of Determination (r) Outside Acceptance Criteria.** If linear regression was used for calibration and r was outside the method respective acceptance criteria of > 0.995 , the sample data are qualified as follows. If analytes are not detected in the associated samples, the sample results are qualified with a “UJ” flag. If the corresponding analytes are detected in the associated samples, the sample results are qualified with a “J” flag to indicate the data are estimated. All ICAL r values were within acceptance criteria.
- **ICAL Average Relative Response Factor (RRF) Outside Acceptance Criteria (GC/MS Analysis Only).** If the RRF was outside acceptance criteria for system performance check compounds (SPCCs) (refer to the CDQMP for method specific criteria or the acceptance criteria of > 0.05 for non-SPCC compounds), the sample data were qualified as follows. If the analytes were not detected in the associated samples, the sample results were “R”-flagged to indicate the data are not usable. If the corresponding analytes were detected in the associated samples, the sample results were qualified with a “J” flag to indicate the data were estimated. All RRFs were within acceptance criteria.

- **CVS Percent Difference (%D) or Percent Drift Outside Acceptance Criteria.** If the CVS %D (if RSD was used) or the percent drift (if the correlation coefficient was used) was outside acceptance criteria the bias was determined. If the bias was high, non-detected analytes associated with the CVS, were not qualified; detected analytes associated with the CVS were qualified with a “J+” flag indicating the datum was estimated, potentially biased high. If the bias was determined to be low non-detected analytes associated with the CVS were qualified with a “UJ” flag indicating the RL is estimated; detected analytes associated with the CVS were qualified with a “J-” flag indicating the data are estimated, potentially biased low. Sample data qualified due to the CVS %D or percent drift are listed in Table B-2 with “CVS” as the QC type. CVS data outside the acceptance criteria that did not result in qualified data are listed in Table B-3 with “CVS” as the QC type.

Nine carbon tetrachloride sample results were qualified with a “UJ” flag and five carbon tetrachloride results were qualified with a “J-” because the associated CVS result was below the acceptance criterion. Although these data were qualified, there is no affect on the decision making process or data usability because the data are consistent with the historical data.

One 1,1,1-trichloroethane sample result was qualified with a “UJ” flag because the associated CVS result was below the acceptance criterion. Although this datum is qualified, there is no affect on the decision making process or data usability because the datum is consistent with the historical data.

One 1,2-dichloroethane sample result was qualified with a “UJ” flag because the associated CVS result was below the acceptance criterion. Although this datum is qualified, there is no affect on the decision making process or data usability because the datum is consistent with the historical data.

- **The CVS Average RRF was Below Acceptance Criteria.** If the CVS average RRF was outside the acceptance criterion of <0.05 (for VOCs only), the sample data were qualified as follows. Compounds below the acceptance criteria indicate a potential bias during sample analysis. If the analytes were not detected in the associated samples, the sample results were “R”-flagged to indicate the data are not usable. If the corresponding analytes were detected in the associated samples, the sample results were qualified with a “J” flag to indicate the data were estimated. All CVS RRFs were within acceptance criteria.

B2.3.3 Surrogate Spike Evaluation

B2.3.3.1. Surrogate spike recoveries were used to evaluate the accuracy of the analytical data and to monitor laboratory control procedures for organic analyses. Samples were spiked with surrogates according to the laboratory’s standard operating procedures (SOPs). The surrogate spike recovery data were evaluated using the acceptance criteria outlined in the CDQMP. Surrogate recoveries are presented with the sample data in Table B1-3. The following criteria were used to evaluate surrogate recoveries:

- **Surrogate Recoveries Below Acceptance Criteria.** Surrogate recoveries below the acceptance criteria indicate a potential low bias during sample analysis. Therefore, if the surrogate recovery was below the acceptance criteria and the surrogate recovery was greater than or equal to ten percent, non-detect compounds associated with the surrogate were qualified with a “UJ” flag indicating the RL is estimated. If the surrogate recovery was less than 10 percent, then the associated compounds were qualified with an “R” flag indicating the data may not be usable. If analytes associated with the surrogates were detected in the sample, the sample results were qualified with a “J” flag to indicate the data are estimated and are potentially biased low.
- **Surrogate Recoveries Above Acceptance Criteria.** Surrogate recoveries above the acceptance criteria indicate a potential high bias during sample

analysis. Therefore, if the surrogate recovery was above the acceptance criteria, non-detected compounds associated with the surrogate were not qualified because of the potentially high bias. If the compounds associated with the surrogate were detected in the sample, the sample results were qualified with a “J” flag to indicate the data are estimated and potentially biased high.

B2.3.3.2. Sample data qualified due to surrogate recoveries are listed in Table B-3 with “SURR” as the QC type.

B2.3.3.3. Two 1,4-dioxane sample results were qualified with a “UJ” flag and six 1,4-dioxane sample results were qualified with a “J-” flag because the surrogate recovery was below the acceptance criterion. Although the data have been qualified as estimated with a potential low bias, the data are consistent with the historical data.

B2.3.4 Matrix Spike/Matrix Spike Duplicate Sample Evaluation

B2.3.4.1. Site specific MS and MSD samples were analyzed to assess accuracy and to identify possible adverse matrix effects. These samples were spiked with target analytes according to the CDQMP prior to extraction or analysis. The percent recoveries of the spiked compounds were compared to the CDQMP criteria. Matrix spike/matrix spike duplicate data are presented in Tables B-10a and B-10b. The criteria used to evaluate the MS/MSD samples are described below.

B2.3.4.2. Matrix spike compounds below the acceptance criteria indicate a potential low bias during sample analysis. The following criteria were used for data verification:

- **MS/MSD Recovery Below Acceptance Criteria.** Matrix spike compounds below the acceptance criteria indicate a potential low bias during sample analysis. Therefore, if corresponding analytes were not detected in the parent sample, the data were qualified with a “UJ” flag indicating a possible false negative. If corresponding analytes were detected in the parent sample the

data were qualified with a “J-” flag indicating the data are estimated and are potentially biased low.

- **MS/MSD Recovery Above Acceptance Criteria.** Matrix spike/matrix spike duplicate recoveries above the acceptance criteria indicate a potential high bias during sample analysis. Therefore, if corresponding analytes were not detected in the parent sample, data were not qualified because the recovery indicates a high bias and does not affect non-detect analytes. If corresponding analytes were detected in the parent sample data were qualified with a “J+” flag indicating the data are estimated and are potentially biased high.
- **High Analyte Concentration in Parent Sample.** If the concentration in the parent sample was more than four times the MS/MSD spike concentration and the MS/MSD recoveries were outside the acceptance criteria, no data were qualified.
- **High and Low MS/MSD Recovery Exceedences.** Bias cannot be determined if a spike recovery is above the acceptance criterion in the MS and below the acceptance criterion in the MSD, or vice versa. Therefore, the following procedures were used to verify parent sample data. If the parent sample was non-detect for the analytes that were outside the acceptance criteria in the MS/MSD, the parent sample data were not qualified. If the analytes that were outside acceptance criteria in the MS/MSD were detected in the parent sample, the parent sample data were qualified with a “J” flag to indicate that the data are estimated.

B2.3.4.3. Sample data were qualified based on MS results and are listed in Table B-2 with “MS” and the QC type. No sample data were qualified due to MSD results. Sample data outside acceptance criteria that did not result in qualified data are listed in Table B1-2 with “MSD” as the QC type.

B2.3.4.4. One trichloroethene (TCE) sample result was qualified with a “J-” flag because the matrix spike recovery was below the acceptance criterion. Although the datum is

estimated with a potential low bias, the sample datum is consistent with historical data. Therefore data usability is not affected.

B2.3.5 Laboratory Control Sample/Laboratory Control Sample Duplicate Evaluation

B2.3.5.1. Laboratory control samples and LCDs were analyzed to assess accuracy in the absence of matrix effects. Deionized water was spiked with target analytes according to the CDQMP prior to analysis. The spiked compounds percent recoveries were compared to the QC limits established in the CDQMP. The same criteria used to evaluate the MS/MSD samples were used to evaluate the LCS/LCD samples except that all sample data associated with the LCS/LCD were qualified instead of just the parent sample. Laboratory control sample data are presented by analytical method in Tables B-11a and B-11b. Sample data qualified due to LCS/LCD data are listed in Table B-2 with “LCS” and/or “LCD” as the QC type.

B2.3.5.2. One 1,1-dichloroethene sample result was qualified with a “UJ” flag because the matrix spike recovery was below the acceptance criterion. Although the reporting limit is estimated with a potential low bias, the sample datum is consistent with historical data. Therefore data usability is not affected.

B2.3.6 Internal Standard Evaluation

B2.3.6.1 Internal standards are used to access accuracy and to determine the concentration of target analytes in samples for VOC analyses. Internal standards are spiked in the sample after sample preparation/extraction, but prior to analysis. Analyte concentration is determined using the following equation:

$$C_S = \frac{A_S \times C_{IS}}{A_{IS} \times RF}$$

Where: CS = Concentration of the analyte or surrogate

AS = Peak area (or height) of the analyte or surrogate

CIS = Concentration of the IS

AIS = Area of the IS

RF = Average response factor of calibration curve

B2.3.6.2. Accuracy was assessed by comparing the IS recovery to the control limits established by the method. The following criteria were used to evaluate IS data:

- **Internal Standard Recovery Below Acceptance Criteria.** If the IS recovery was below 50 percent, non-detected analytes associated with the IS were qualified with a “UJ” flag indicating the RL is estimated. Detected analytes were qualified with a “J” flag indicating the data were estimated.
- **Internal Standard Recovery Above Acceptance Criteria.** If the IS recovery is above 200 percent, non-detect compounds were not qualified. Detected compounds were qualified with a “J” flag indicating the data were estimated.

B2.3.6.3. All IS recoveries were within acceptance criteria.

B2.3.7 Data Validation Results in Relation to Accuracy

B2.3.7.1. The results of the data validation in relation to accuracy indicate that the data are of sufficient quality to support end use. All samples were analyzed in accordance with the CDQMP, and the RCRA permit.

B2.4 PRECISION EVALUATION

B2.4.0.1. Precision measures the reproducibility of measurements under a given set of conditions. Laboratory precision was evaluated using the RPD calculated between the MS and MSD samples and parent and field duplicate samples.

B2.4.0.2. Relative Percent Difference Evaluation. RPD is calculated using the following equation:

$$RPD = \left(\frac{|A - B|}{[A + B]/2} \right) \times 100$$

Where: A and B are the reported concentrations for sample duplicate analyses.

B2.4.1 Matrix Spike/Matrix Spike Duplicate Sample Evaluation

B2.4.1.1. The following criteria were used for the MS/MSD precision evaluation. If the RPD exceeded the acceptance criteria, corresponding analytes detected in the parent sample were qualified with a “J” flag indicating the data are estimated. Because bias cannot be determined when target analytes are not detected in a sample, parent sample data for non-detected analytes were not qualified. The MS/MSD RPD data are presented Tables B-10a and B-10b. All MS/MSD RPDs were within acceptance criteria.

B2.4.2 Field Duplicate Sample Evaluation

B2.4.2.1. As discussed previously, sample data were not qualified based on field duplicate sample results. These data were used qualitatively as additional evidence to support data comparability and quality. The RPDs for the field duplicate samples are presented Tables B-9a and B-9b. A comparison of the sample results and the RPDs indicate good agreement between the parent sample and its respective duplicate.

B2.4.3 Data Validation Results in Relation to Precision

B2.4.3.1. The results of the data validation in relation to precision indicate that the data are of sufficient quality to support end use. All samples were analyzed in accordance with the CDQMP and no data were qualified as a result of out of compliance precision.

B2.5 COMPARABILITY EVALUATION

B2.5.0.1. Comparability is a qualitative parameter that expresses the confidence that one data set may be compared to another. For this project, sample collection and analysis followed standard methods and the data were reported using standard units of measure. In addition, data from this sampling round was compared to previous sampling rounds and the data from this sampling round were found to be comparable to previous sampling rounds.

B3.0 DATA VERIFICATION/VALIDATION SUMMARY

B3.0.0.1. Precision. Based on the results of the MS/MSD and field duplicate sample analyses, the data are precise as reported.

B3.0.0.2. Accuracy. Based on the tune standard, ICAL, CVS, internal standard, surrogate, MS/MSD, LCS, and LCD results, the data are accurate as qualified.

B3.0.0.3. Representativeness. Based on the results of the holding time evaluation, method, trip, and equipment rinseate blank sample analysis, the field duplicate sample evaluation, and the RL evaluation the data are considered representative as reported.

B3.0.0.4. Comparability. Based on the results of the comparability evaluation, the results from this sampling round are comparable. Standard methods of sample collection and standard units of measure were used during this project. The analysis performed by the laboratory was in accordance with the CDQMP. In addition, comparison of data from this sampling round to previously collected data indicate the data are comparable.

B3.0.0.5. Completeness. Based on the results of the data verification and validation, all data are considered usable. Both sampling and analytical completeness were 100 percent.

B3.0.0.6. Based on the results of the data validation, the data collected for this sampling round were of sufficient quantity and quality to meet the project objectives.

REFERENCES

United States Army Corps of Engineers, 1999. *Chemical Data Quality Management Plan (CDQMP) Tooele Army Depot, Final Revision 2.*

Utah Department of Environmental Quality, Division of Solid and Hazardous Waste, 2001. Tooele Army Depot Post-Closure Permit. USEPA Identification Number, UT3213820894.

TABLE B-1a
VOLATILE ORGANIC COMPOUNDS SAMPLE DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKEE ARMY DEPOT, UTAH
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Location Identification	A-02A	B-03	B-05	B-06
Date Collected	11/15/2004	11/22/2004	11/22/2004	11/22/2004
Matrix	Groundwater	Groundwater	Groundwater	Groundwater
Analyte/Methods (Units)				
Volatile Organic Compounds/ SW8260B ($\mu\text{g/l}$)			Diluted	Diluted
1,1,1-Trichloroethane	<1.0	<1.0	NA	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	NA	<1.0
1,1-Dichloroethane	<1.0	<1.0	NA	0.96 T
1,1-Dichloroethene	0.23 T	0.39 T	NA	0.85 T
1,2-Dichloroethane	<1.0	<1.0	NA	<1.0
1,2-Dichloropropane	<1.0	<1.0	NA	<1.0
Benzene	<1.0	<1.0	NA	<1.0
Carbon tetrachloride	<1.0	NA	27 D	10
Chloroethane	<1.0	<1.0	NA	<1.0
Chloroform	<1.0	0.81 T	NA	1.7
Ethylbenzene	<1.0	<1.0	NA	<1.0
Methylene chloride	<5.0	<5.0	NA	<5.0
Tetrachloroethene (PCE)	<1.0	0.3 T	NA	0.4 T
Toluene	<1.0	<1.0	NA	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	NA	<1.0
Trichloroethene (TCE)	31	NA	94 D	NA
Vinyl chloride	<2.0	<2.0	NA	<2.0
Xylenes, Total	<1.0	<1.0	NA	<1.0
Surrogate (%)		Limit		
1,2-Dichloroethane-d4	70 - 130	89	128	104
1-Bromo-4-fluorobenzene	70 - 130	114	114	89
Toluene-D8	70 - 130	99	112	90

- Bold** Bolded result indicates positively identified compound.
NA Not analyzed.
D Sample dilution required for analysis; reported values reflect the dilution.
J- Datum is estimated, potentially biased low.
J+ Datum is estimated, potentially biased high.
T Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.
UJ Estimated reporting limit, potential low bias.

TABLE B-1a
VOLATILE ORGANIC COMPOUNDS SAMPLE DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKELE ARMY DEPOT, UTAH
(Page 2 of 25)

Location Identification	B-06 Dup	B-07	B-09	B-10
Date Collected	11/22/2004	11/15/2004	11/18/2004	11/18/2004
Matrix	Groundwater	Groundwater	Groundwater	Groundwater
Analyte/Methods (Units)				
Volatile Organic Compounds/ SW8260B (µg/l)				
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	<1.0	0.43 T	<1.0	<1.0
1,1-Dichloroethene	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0
Benzene	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	<1.0	0.37 T	4.2	5.0
Chloroethane	<1.0	<1.0	<1.0	<1.0
Chloroform	<1.0	0.54 T	0.33 T	<1.0
Ethylbenzene	<1.0	<1.0	<1.0	<1.0
Methylene chloride	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene (PCE)	<1.0	<1.0	<1.0	<1.0
Toluene	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0
Trichloroethene (TCE)	7.3	26	18	31
Vinyl chloride	<2.0	<2.0	<2.0	<2.0
Xylenes, Total	<1.0	<1.0	<1.0	<1.0
Surrogate (%)				
1,2-Dichloroethane-d4	70 - 130	94	91	97
1-Bromo-4-fluorobenzene	70 - 130	93	105	90
Toluene-D8	70 - 130	93	99	89

Bold Bolded result indicates positively identified compound.

NA Not analyzed.

D Sample dilution required for analysis; reported values reflect the dilution.

J- Datum is estimated, potentially biased low.

J+ Datum is estimated, potentially biased high.

T Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.

UJ Estimated reporting limit, potential low bias.

TABLE B-1a
VOLATILE ORGANIC COMPOUNDS SAMPLE DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKEE ARMY DEPOT, UTAH
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Location Identification	B-12	B-14A	B-14A Dup	B-16
Date Collected	11/22/2004	11/18/2004	11/18/2004	11/18/2004
Matrix	Groundwater	Groundwater	Groundwater	Groundwater
Analyte/Methods (Units)				
Volatile Organic Compounds/ SW8260B (µg/l)				
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	0.29 T	<1.0	<1.0	<1.0
1,1-Dichloroethene	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0
Benzene	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	1.4	<1.0	<1.0	0.33 T
Chloroethane	<1.0	<1.0	<1.0	<1.0
Chloroform	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	<1.0	<1.0	<1.0	<1.0
Methylene chloride	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene (PCE)	<1.0	<1.0	<1.0	<1.0
Toluene	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0
Trichloroethene (TCE)	14	<1.0	<1.0	1.2
Vinyl chloride	<2.0	<2.0	<2.0	<2.0
Xylenes, Total	<1.0	<1.0	<1.0	<1.0
Surrogate (%)				
1,2-Dichloroethane-d4	70 - 130	95	92	95
1-Bromo-4-fluorobenzene	70 - 130	89	90	91
Toluene-D8	70 - 130	89	90	90

Bold Bolded result indicates positively identified compound.

NA Not analyzed.

D Sample dilution required for analysis; reported values reflect the dilution.

J- Datum is estimated, potentially biased low.

J+ Datum is estimated, potentially biased high.

T Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.

UJ Estimated reporting limit, potential low bias.

TABLE B-1a
VOLATILE ORGANIC COMPOUNDS SAMPLE DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKELE ARMY DEPOT, UTAH
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Location Identification	B-17	B-18	B-18 Dup	B-19
Date Collected	11/18/2004	11/18/2004	11/18/2004	11/15/2004
Matrix	Groundwater	Groundwater	Groundwater	Groundwater
Analyte/Methods (Units)				
Volatile Organic Compounds/ SW8260B (µg/l)				
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0
Benzene	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0
Chloroethane	<1.0	<1.0	<1.0	<1.0
Chloroform	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	<1.0	<1.0	<1.0	<1.0
Methylene chloride	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene (PCE)	<1.0	<1.0	<1.0	<1.0
Toluene	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0
Trichloroethene (TCE)	3.0	2.1	2.2	1.8
Vinyl chloride	<2.0	<2.0	<2.0	<2.0
Xylenes, Total	<1.0	<1.0	<1.0	<1.0
Surrogate (%)				
1,2-Dichloroethane-d4	70 - 130	99	88	91
1-Bromo-4-fluorobenzene	70 - 130	88	91	92
Toluene-D8	70 - 130	90	88	91

Bold Bolded result indicates positively identified compound.

NA Not analyzed.

D Sample dilution required for analysis; reported values reflect the dilution.

J- Datum is estimated, potentially biased low.

J+ Datum is estimated, potentially biased high.

T Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.

UJ Estimated reporting limit, potential low bias.

TABLE B-1a
VOLATILE ORGANIC COMPOUNDS SAMPLE DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKELE ARMY DEPOT, UTAH
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Location Identification	B-21	B-22	B-24	B-26
Date Collected	11/22/2004	11/22/2004	11/22/2004	11/15/2004
Matrix	Groundwater	Groundwater	Groundwater	Groundwater
Analyte/Methods (Units)				
Volatile Organic Compounds/ SW8260B ($\mu\text{g/l}$)		Diluted		Diluted
1,1,1-Trichloroethane	<1.0	NA	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	NA	<1.0	<1.0
1,1-Dichloroethane	<1.0	NA	<1.0	<1.0
1,1-Dichloroethene	0.51 T	NA	<1.0	<1.0
1,2-Dichloroethane	<1.0	NA	<1.0	<1.0
1,2-Dichloropropane	<1.0	NA	<1.0	<1.0
Benzene	<1.0	NA	<1.0	<1.0
Carbon tetrachloride	7.8	NA	2.5	4.6
Chloroethane	<1.0	NA	<1.0	<1.0
Chloroform	0.33 T	NA	<1.0	0.22 T
Ethylbenzene	<1.0	NA	<1.0	<1.0
Methylene chloride	<5.0	NA	<5.0	<5.0
Tetrachloroethene (PCE)	0.48 T	NA	0.34 T	<1.0
Toluene	<1.0	NA	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	NA	<1.0	<1.0
Trichloroethene (TCE)	NA	57 D	20	4.1
Vinyl chloride	<2.0	NA	<2.0	<2.0
Xylenes, Total	0.85 T	NA	<1.0	<1.0
Surrogate (%)		Limit		
1,2-Dichloroethane-d4	70 - 130	97	101	129
1-Bromo-4-fluorobenzene	70 - 130	88	91	114
Toluene-D8	70 - 130	89	90	112

Bold Bolded result indicates positively identified compound.

NA Not analyzed.

D Sample dilution required for analysis; reported values reflect the dilution.

J- Datum is estimated, potentially biased low.

J+ Datum is estimated, potentially biased high.

T Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.

UJ Estimated reporting limit, potential low bias.

TABLE B-1a
VOLATILE ORGANIC COMPOUNDS SAMPLE DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKEE ARMY DEPOT, UTAH
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Location Identification	B-27	B-30	B-31	B-32
Date Collected	11/22/2004	11/18/2004	11/18/2004	11/18/2004
Matrix	Groundwater	Groundwater	Groundwater	Groundwater
Analyte/Methods (Units)				
Volatile Organic Compounds/ SW8260B ($\mu\text{g/l}$)		Diluted		
1,1,1-Trichloroethane	0.2 T	NA	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	NA	<1.0	<1.0
1,1-Dichloroethane	<1.0	NA	<1.0	<1.0
1,1-Dichloroethene	1.7	NA	<1.0	<1.0
1,2-Dichloroethane	<1.0	NA	<1.0	<1.0
1,2-Dichloropropane	<1.0	NA	<1.0	<1.0
Benzene	<1.0	NA	<1.0	<1.0
Carbon tetrachloride	23	NA	<1.0	<1.0
Chloroethane	<1.0	NA	<1.0	<1.0
Chloroform	0.61 T	NA	<1.0	<1.0
Ethylbenzene	<1.0	NA	<1.0	<1.0
Methylene chloride	<5.0	NA	<5.0	<5.0
Tetrachloroethene (PCE)	4.7	NA	<1.0	<1.0
Toluene	<1.0	NA	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	NA	<1.0	<1.0
Trichloroethene (TCE)	NA	95 D	4.5	0.37 T
Vinyl chloride	<2.0	NA	<2.0	<2.0
Xylenes, Total	<1.0	NA	<1.0	<1.0
Surrogate (%)		Limit		
1,2-Dichloroethane-d4	70 - 130	128	101	85
1-Bromo-4-fluorobenzene	70 - 130	117	91	92
Toluene-D8	70 - 130	115	91	91
				90

Bold Bolded result indicates positively identified compound.

NA Not analyzed.

D Sample dilution required for analysis; reported values reflect the dilution.

J- Datum is estimated, potentially biased low.

J+ Datum is estimated, potentially biased high.

T Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.

UJ Estimated reporting limit, potential low bias.

TABLE B-1a
VOLATILE ORGANIC COMPOUNDS SAMPLE DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKELE ARMY DEPOT, UTAH
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Location Identification	B-34	B-34 Dup	B-35	B-36
Date Collected	11/15/2004	11/17/2004	11/15/2004	11/22/2004
Matrix	Groundwater	Groundwater	Groundwater	Groundwater
Analyte/Methods (Units)				
Volatile Organic Compounds/ SW8260B ($\mu\text{g/l}$)				
1,1,1-Trichloroethane	<1.0	NA	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	NA	<1.0	<1.0
1,1-Dichloroethane	<1.0	NA	<1.0	<1.0
1,1-Dichloroethene	<1.0	NA	<1.0	<1.0
1,2-Dichloroethane	<1.0	NA	<1.0	<1.0
1,2-Dichloropropane	<1.0	NA	<1.0	<1.0
Benzene	<1.0	NA	<1.0	<1.0
Carbon tetrachloride	<1.0	NA	<1.0	<1.0
Chloroethane	<1.0	NA	<1.0	<1.0
Chloroform	<1.0	NA	<1.0	<1.0
Ethylbenzene	<1.0	NA	<1.0	<1.0
Methylene chloride	<5.0	NA	<5.0	<5.0
Tetrachloroethene (PCE)	<1.0	NA	<1.0	<1.0
Toluene	<1.0	NA	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	NA	<1.0	<1.0
Trichloroethene (TCE)	3.4	NA	5.6	<1.0
Vinyl chloride	<2.0	NA	<2.0	<2.0
Xylenes, Total	<1.0	NA	<1.0	<1.0
Surrogate (%)				
1,2-Dichloroethane-d4	70 - 130	89	NA	90
1-Bromo-4-fluorobenzene	70 - 130	102	NA	102
Toluene-D8	70 - 130	98	NA	97

Bold Bolded result indicates positively identified compound.

NA Not analyzed.

D Sample dilution required for analysis; reported values reflect the dilution.

J- Datum is estimated, potentially biased low.

J+ Datum is estimated, potentially biased high.

T Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.

UJ Estimated reporting limit, potential low bias.

TABLE B-1a
VOLATILE ORGANIC COMPOUNDS SAMPLE DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKEE ARMY DEPOT, UTAH
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Location Identification	B-37	B-40	B-50	B-54
Date Collected	11/17/2004	11/17/2004	11/17/2004	11/17/2004
Matrix	Groundwater	Groundwater	Groundwater	Groundwater
Analyte/Methods (Units)				
Volatile Organic Compounds/ SW8260B ($\mu\text{g/l}$)				
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0
Benzene	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	<1.0 UJ	<1.0 UJ	<1.0 UJ	6.5 J-
Chloroethane	<1.0	<1.0	<1.0	<1.0
Chloroform	<1.0	<1.0	<1.0	1.0
Ethylbenzene	<1.0	<1.0	<1.0	<1.0
Methylene chloride	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene (PCE)	<1.0	<1.0	<1.0	<1.0
Toluene	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0
Trichloroethene (TCE)	3.5	5.8	0.22 T	16
Vinyl chloride	<2.0	<2.0	<2.0	<2.0
Xylenes, Total	<1.0	<1.0	<1.0	<1.0
Surrogate (%)				
1,2-Dichloroethane-d4	70 - 130	86	82	86
1-Bromo-4-fluorobenzene	70 - 130	110	105	110
Toluene-D8	70 - 130	108	102	105

Bold Bolded result indicates positively identified compound.

NA Not analyzed.

D Sample dilution required for analysis; reported values reflect the dilution.

J- Datum is estimated, potentially biased low.

J+ Datum is estimated, potentially biased high.

T Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.

UJ Estimated reporting limit, potential low bias.

TABLE B-1a
VOLATILE ORGANIC COMPOUNDS SAMPLE DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKEE ARMY DEPOT, UTAH
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Location Identification	B-56	B-59	B-59 Dup	B-61
Date Collected	11/22/2004	11/18/2004	11/18/2004	11/18/2004
Matrix	Groundwater	Groundwater	Groundwater	Groundwater
Analyte/Methods (Units)				
Volatile Organic Compounds/ SW8260B (µg/l)				
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	0.59 T	<1.0	<1.0	<1.0
1,1-Dichloroethene	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0
Benzene	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0
Chloroethane	<1.0	<1.0	<1.0	<1.0
Chloroform	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	<1.0	<1.0	<1.0	<1.0
Methylene chloride	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene (PCE)	<1.0	<1.0	<1.0	<1.0
Toluene	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0
Trichloroethene (TCE)	3.1	0.63 T	0.71 T	<1.0
Vinyl chloride	<2.0	<2.0	<2.0	<2.0
Xylenes, Total	<1.0	<1.0	<1.0	<1.0
Surrogate (%)				
1,2-Dichloroethane-d4	<u>Limit</u> 70 - 130	97	94	93
1-Bromo-4-fluorobenzene	70 - 130	93	91	87
Toluene-D8	70 - 130	90	89	89

Bold Bolded result indicates positively identified compound.

NA Not analyzed.

D Sample dilution required for analysis; reported values reflect the dilution.

J- Datum is estimated, potentially biased low.

J+ Datum is estimated, potentially biased high.

T Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.

UJ Estimated reporting limit, potential low bias.

TABLE B-1a
VOLATILE ORGANIC COMPOUNDS SAMPLE DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKEE ARMY DEPOT, UTAH
(Page 10 of 25)

Location Identification	B-62	C-03	C-04	C-08
Date Collected	11/18/2004	11/17/2004	11/17/2004	11/18/2004
Matrix	Groundwater	Groundwater	Groundwater	Groundwater
Analyte/Methods (Units)				
Volatile Organic Compounds/ SW8260B (µg/l)				
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	0.31 T	<1.0	<1.0	<1.0
1,1-Dichloroethene	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0
Benzene	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	0.53 T	<1.0 UJ	<1.0 UJ	0.74 T
Chloroethane	<1.0	<1.0	<1.0	<1.0
Chloroform	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	<1.0	<1.0	<1.0	<1.0
Methylene chloride	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene (PCE)	<1.0	<1.0	<1.0	<1.0
Toluene	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0
Trichloroethene (TCE)	16	<1.0	<1.0	4.6
Vinyl chloride	<2.0	<2.0	<2.0	<2.0
Xylenes, Total	<1.0	<1.0	<1.0	<1.0
Surrogate (%)				
1,2-Dichloroethane-d4	70 - 130	91	88	86
1-Bromo-4-fluorobenzene	70 - 130	88	108	111
Toluene-D8	70 - 130	89	101	101

Bold Bolded result indicates positively identified compound.

NA Not analyzed.

D Sample dilution required for analysis; reported values reflect the dilution.

J- Datum is estimated, potentially biased low.

J+ Datum is estimated, potentially biased high.

T Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.

UJ Estimated reporting limit, potential low bias.

TABLE B-1a
VOLATILE ORGANIC COMPOUNDS SAMPLE DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKELE ARMY DEPOT, UTAH
(Page 11 of 25)

Location Identification Date Collected Matrix	C-08 Dup 11/18/2004 Groundwater	C-09 11/15/2004 Groundwater	C-10 11/18/2004 Groundwater	C-11 11/18/2004 Groundwater
Analyte/Methods (Units)				
Volatile Organic Compounds/ SW8260B ($\mu\text{g/l}$)				
		Diluted	Diluted	
1,1,1-Trichloroethane	<1.0	<1.0	NA	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	NA	<1.0
1,1-Dichloroethane	<1.0	<1.0	NA	<1.0
1,1-Dichloroethene	<1.0	<1.0	NA	<1.0
1,2-Dichloroethane	<1.0	<1.0	NA	<1.0
1,2-Dichloropropane	<1.0	<1.0	NA	<1.0
Benzene	<1.0	<1.0	NA	<1.0
Carbon tetrachloride	0.73 T	3.2	NA	2.1
Chloroethane	<1.0	<1.0	NA	<1.0
Chloroform	<1.0	1.4	NA	0.23 T
Ethylbenzene	<1.0	<1.0	NA	<1.0
Methylene chloride	<5.0	<5.0	NA	<5.0
Tetrachloroethene (PCE)	<1.0	0.21 T	NA	<1.0
Toluene	<1.0	<1.0	NA	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	NA	<1.0
Trichloroethene (TCE)	4.2	NA	50 D	NA
Vinyl chloride	<2.0	<2.0	NA	<2.0
Xylenes, Total	<1.0	<1.0	NA	<1.0
Surrogate (%)				
		Limit		
1,2-Dichloroethane-d4	70 - 130	97	93	92
1-Bromo-4-fluorobenzene	70 - 130	91	107	104
Toluene-D8	70 - 130	90	94	97
			102	96
			88	88
			90	88

Bold Bolded result indicates positively identified compound.

NA Not analyzed.

D Sample dilution required for analysis; reported values reflect the dilution.

J- Datum is estimated, potentially biased low.

J+ Datum is estimated, potentially biased high.

T Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.

UJ Estimated reporting limit, potential low bias.

TABLE B-1a
VOLATILE ORGANIC COMPOUNDS SAMPLE DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKEE ARMY DEPOT, UTAH
(Page 12 of 25)

Location Identification	C-12	C-13	C-14	C-15
Date Collected	11/23/2004	11/17/2004	11/18/2004	11/17/2004
Matrix	Groundwater	Groundwater	Groundwater	Groundwater
Analyte/Methods (Units)				
Volatile Organic Compounds/ SW8260B ($\mu\text{g/l}$)		Diluted	Diluted	
1,1,1-Trichloroethane	<1	NA	<1.0	NA
1,1,2,2-Tetrachloroethane	<1	NA	<1.0	NA
1,1-Dichloroethane	<1	NA	<1.0	NA
1,1-Dichloroethene	<1	NA	<1.0	NA
1,2-Dichloroethane	<1	NA	<1.0	NA
1,2-Dichloropropane	<1	NA	<1.0	NA
Benzene	<1	NA	<1.0	NA
Carbon tetrachloride	0.46 T	NA	0.27 TJ-	NA
Chloroethane	<1	NA	<1.0	NA
Chloroform	<1	NA	<1.0	NA
Ethylbenzene	<1	NA	<1.0	NA
Methylene chloride	<5	NA	<5.0	NA
Tetrachloroethene (PCE)	<1	NA	<1.0	NA
Toluene	<1	NA	<1.0	NA
trans-1,2-Dichloroethene	<1	NA	<1.0	NA
Trichloroethene (TCE)	NA	100 D	NA	120 D
Vinyl chloride	<2	NA	<2.0	NA
Xylenes, Total	<1	NA	<1.0	NA
Surrogate (%)		Limit		
1,2-Dichloroethane-d4	70 - 130	112	108	83
1-Bromo-4-fluorobenzene	70 - 130	111	109	108
Toluene-D8	70 - 130	114	116	104
				94
				91
				90
				87
				111
				101

Bold Bolded result indicates positively identified compound.

NA Not analyzed.

D Sample dilution required for analysis; reported values reflect the dilution.

J- Datum is estimated, potentially biased low.

J+ Datum is estimated, potentially biased high.

T Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.

UJ Estimated reporting limit, potential low bias.

TABLE B-1a
VOLATILE ORGANIC COMPOUNDS SAMPLE DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKEE ARMY DEPOT, UTAH
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Location Identification	C-17	C-18	C-19	C-20	
Date Collected	11/15/2004	11/17/2004	11/15/2004	11/17/2004	
Matrix	Groundwater	Groundwater	Groundwater	Groundwater	
Analyte/Methods (Units)					
Volatile Organic Compounds/				Diluted	
SW8260B (µg/l)					
1,1,1-Trichloroethane	<1.0	<1.0	0.9 T	NA	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	NA	<1.0
1,1-Dichloroethane	<1.0	<1.0	0.21 T	NA	<1.0
1,1-Dichloroethene	0.26 T	<1.0	2.5	NA	<1.0
1,2-Dichloroethane	0.61 T	<1.0	<1.0	NA	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	NA	<1.0
Benzene	<1.0	<1.0	<1.0	NA	<1.0
Carbon tetrachloride	9.3	<1.0 UJ	0.24 T	NA	4.1
Chloroethane	<1.0	<1.0	<1.0	NA	<1.0
Chloroform	3.6	<1.0	0.85 T	NA	0.49 T
Ethylbenzene	<1.0	<1.0	<1.0	NA	<1.0
Methylene chloride	<5.0	<5.0	<5.0	NA	<5.0
Tetrachloroethene (PCE)	<1.0	<1.0	0.22 T	NA	<1.0
Toluene	<1.0	<1.0	<1.0	NA	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0	NA	<1.0
Trichloroethene (TCE)	13 J+	<1.0	NA	490 D	<1.0
Vinyl chloride	<2.0	<2.0	<2.0	NA	<2.0
Xylenes, Total	<1.0	<1.0	<1.0	NA	<1.0
Surrogate (%)		Limit			
1,2-Dichloroethane-d4	70 - 130	90	88	86	86
1-Bromo-4-fluorobenzene	70 - 130	108	108	105	114
Toluene-D8	70 - 130	96	102	98	102

Bold Bolded result indicates positively identified compound.

NA Not analyzed.

D Sample dilution required for analysis; reported values reflect the dilution.

J- Datum is estimated, potentially biased low.

J+ Datum is estimated, potentially biased high.

T Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.

UJ Estimated reporting limit, potential low bias.

TABLE B-1a
VOLATILE ORGANIC COMPOUNDS SAMPLE DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKELE ARMY DEPOT, UTAH
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Location Identification	C-21	C-25	C-26	C-30	
Date Collected	11/17/2004	11/22/2004	11/17/2004	11/17/2004	
Matrix	Groundwater	Groundwater	Groundwater	Groundwater	
Analyte/Methods (Units)					
Volatile Organic Compounds/ SW8260B ($\mu\text{g/l}$)		Diluted		Diluted	
1,1,1-Trichloroethane	<1.0	NA	<1.0	<1.0	NA
1,1,2,2-Tetrachloroethane	<1.0	NA	<1.0	<1.0	NA
1,1-Dichloroethane	0.31 T	NA	1.2	<1.0	NA
1,1-Dichloroethene	0.46 T	NA	<1.0	<1.0	NA
1,2-Dichloroethane	<1.0	NA	<1.0	<1.0	NA
1,2-Dichloropropane	<1.0	NA	<1.0	<1.0	NA
Benzene	<1.0	NA	<1.0	<1.0	NA
Carbon tetrachloride	0.35 T	NA	14	0.67 TJ-	NA
Chloroethane	<1.0	NA	<1.0	<1.0	NA
Chloroform	1.1	NA	0.31 T	0.36 T	NA
Ethylbenzene	<1.0	NA	<1.0	<1.0	NA
Methylene chloride	<5.0	NA	<5.0	<5.0	NA
Tetrachloroethene (PCE)	<1.0	NA	<1.0	<1.0	NA
Toluene	<1.0	NA	<1.0	<1.0	NA
trans-1,2-Dichloroethene	3.2	NA	<1.0	<1.0	NA
Trichloroethene (TCE)	NA	72 D	15	NA	490 D
Vinyl chloride	<2.0	NA	<2.0	<2.0	NA
Xylenes, Total	<1.0	NA	<1.0	<1.0	NA
Surrogate (%)		Limit			
1,2-Dichloroethane-d4	70 - 130	92	95	118	88
1-Bromo-4-fluorobenzene	70 - 130	107	100	118	115
Toluene-D8	70 - 130	94	97	114	104

Bold Bolded result indicates positively identified compound.

NA Not analyzed.

D Sample dilution required for analysis; reported values reflect the dilution.

J- Datum is estimated, potentially biased low.

J+ Datum is estimated, potentially biased high.

T Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.

UJ Estimated reporting limit, potential low bias.

TABLE B-1a
VOLATILE ORGANIC COMPOUNDS SAMPLE DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKEE ARMY DEPOT, UTAH
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Location Identification	C-32	C-32 Dup	C-33	C-34
Date Collected	11/22/2004	11/22/2004	11/17/2004	11/22/2004
Matrix	Groundwater	Groundwater	Groundwater	Groundwater
Analyte/Methods (Units)				
Volatile Organic Compounds/				Diluted
SW8260B (µg/l)				
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	NA 0.25 T
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	NA <1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0	NA <1.0
1,1-Dichloroethene	<1.0	<1.0	<1.0	NA 0.38 T
1,2-Dichloroethane	<1.0	<1.0	0.21 T	NA 1.6
1,2-Dichloropropane	<1.0	<1.0	<1.0	NA <1.0
Benzene	<1.0	<1.0	<1.0	NA <1.0
Carbon tetrachloride	4.1	4.2	2.7 J-	NA 28
Chloroethane	<1.0	<1.0	<1.0	NA <1.0
Chloroform	<1.0	<1.0	1.7	NA 1.7
Ethylbenzene	<1.0	<1.0	<1.0	NA <1.0
Methylene chloride	<5.0	<5.0	<5.0	NA <5.0
Tetrachloroethene (PCE)	<1.0	<1.0	0.28 T	NA <1.0
Toluene	<1.0	<1.0	<1.0	NA <1.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0	NA <1.0
Trichloroethene (TCE)	<1.0	<1.0	NA 1600 D	18
Vinyl chloride	<2.0	<2.0	<2.0	NA <2.0
Xylenes, Total	<1.0	<1.0	<1.0	NA <1.0
Surrogate (%)		Limit		
1,2-Dichloroethane-d4	70 - 130	99	99	90 83 96
1-Bromo-4-fluorobenzene	70 - 130	87	89	111 113 91
Toluene-D8	70 - 130	89	89	100 99 90

Bold Bolded result indicates positively identified compound.

NA Not analyzed.

D Sample dilution required for analysis; reported values reflect the dilution.

J- Datum is estimated, potentially biased low.

J+ Datum is estimated, potentially biased high.

T Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.

UJ Estimated reporting limit, potential low bias.

TABLE B-1a
VOLATILE ORGANIC COMPOUNDS SAMPLE DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKEE ARMY DEPOT, UTAH
(Page 16 of 25)

Location Identification	C-35	C-37	C-38	C-39	
Date Collected	11/15/2004	11/15/2004	11/23/2004	11/17/2004	
Matrix	Groundwater	Groundwater	Groundwater	Groundwater	
Analyte/Methods (Units)					
Volatile Organic Compounds/ SW8260B (µg/l)		Diluted			
1,1,1-Trichloroethane	4.4	NA	<1.0	<1	<1.0 UJ
1,1,2,2-Tetrachloroethane	<1.0	NA	<1.0	<1	<1.0
1,1-Dichloroethane	0.35 T	NA	<1.0	<1	<1.0
1,1-Dichloroethene	9.7	NA	<1.0	<1	<1.0
1,2-Dichloroethane	<1.0	NA	<1.0	<1	<1.0 UJ
1,2-Dichloropropane	<1.0	NA	<1.0	<1	<1.0
Benzene	<1.0	NA	<1.0	<1	<1.0
Carbon tetrachloride	<1.0	NA	<1.0	<1	<1.0 UJ
Chloroethane	<1.0	NA	<1.0	<1	<1.0
Chloroform	0.36 T	NA	<1.0	<1	<1.0
Ethylbenzene	<1.0	NA	<1.0	<1	<1.0
Methylene chloride	<5.0	NA	<5.0	<5	<5.0
Tetrachloroethene (PCE)	NA	61 D	<1.0	<1	<1.0
Toluene	<1.0	NA	<1.0	<1	0.33 T
trans-1,2-Dichloroethene	2.7	NA	<1.0	<1	<1.0
Trichloroethene (TCE)	NA	30 D	19 J+	<1	<1.0
Vinyl chloride	<2.0	NA	<2.0	<2	<2.0
Xylenes, Total	<1.0	NA	<1.0	<1	<1.0
Surrogate (%)		Limit			
1,2-Dichloroethane-d4	70 - 130	99	93	104	85
1-Bromo-4-fluorobenzene	70 - 130	106	109	107	109
Toluene-D8	70 - 130	95	102	94	104

Bold Bolded result indicates positively identified compound.

NA Not analyzed.

D Sample dilution required for analysis; reported values reflect the dilution.

J- Datum is estimated, potentially biased low.

J+ Datum is estimated, potentially biased high.

T Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.

UJ Estimated reporting limit, potential low bias.

TABLE B-1a
VOLATILE ORGANIC COMPOUNDS SAMPLE DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKELE ARMY DEPOT, UTAH
(Page 17 of 25)

Location Identification	C-39 Dup	C-40	C-40 Dup	D-01
Date Collected	11/17/2004	11/23/2004	11/23/2004	11/16/2004
Matrix	Groundwater	Groundwater	Groundwater	Groundwater
Analyte/Methods (Units)				
Volatile Organic Compounds/ SW8260B ($\mu\text{g/l}$)			Diluted	Diluted
1,1,1-Trichloroethane	<1.0	0.29 T	NA	0.27 T
1,1,2,2-Tetrachloroethane	<1.0	<1	NA	<1
1,1-Dichloroethane	<1.0	<1	NA	<1
1,1-Dichloroethene	<1.0	0.3 T	NA	0.29 T
1,2-Dichloroethane	<1.0	<1	NA	<1
1,2-Dichloropropane	<1.0	<1	NA	<1
Benzene	<1.0	<1	NA	<1
Carbon tetrachloride	<1.0 UJ	<1	NA	<1
Chloroethane	<1.0	<1	NA	<1
Chloroform	<1.0	0.32 T	NA	0.32 T
Ethylbenzene	<1.0	<1	NA	<1
Methylene chloride	<5.0	<5	NA	<5
Tetrachloroethene (PCE)	<1.0	3.5	NA	3.5
Toluene	0.27 T	<1	NA	<1
trans-1,2-Dichloroethene	<1.0	5.6	NA	5.4
Trichloroethene (TCE)	<1.0	NA	290 D	NA
Vinyl chloride	<2.0	<2	NA	<2.0
Xylenes, Total	<1.0	<1	NA	<1.0
Surrogate (%)		Limit		
1,2-Dichloroethane-d4	70 - 130	89	109	106
1-Bromo-4-fluorobenzene	70 - 130	108	109	106
Toluene-D8	70 - 130	102	115	116

Bold Bolded result indicates positively identified compound.

NA Not analyzed.

D Sample dilution required for analysis; reported values reflect the dilution.

J- Datum is estimated, potentially biased low.

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T Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.

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TABLE B-1a
VOLATILE ORGANIC COMPOUNDS SAMPLE DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKELE ARMY DEPOT, UTAH
(Page 18 of 25)

Location Identification	D-02	D-03	D-04	D-05
Date Collected	11/16/2004	11/16/2004	11/16/2004	11/16/2004
Matrix	Groundwater	Groundwater	Groundwater	Groundwater
Analyte/Methods (Units)				
Volatile Organic Compounds/				<u>Diluted</u>
SW8260B (µg/l)				
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	NA
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	NA
1,1-Dichloroethane	<1.0	<1.0	<1.0	NA
1,1-Dichloroethene	<1.0	<1.0	<1.0	NA
1,2-Dichloroethane	<1.0	<1.0	<1.0	NA
1,2-Dichloropropane	<1.0	<1.0	<1.0	NA
Benzene	<1.0	<1.0	<1.0	NA
Carbon tetrachloride	0.4 T	<1.0	1.3	NA
Chloroethane	<1.0	<1.0	<1.0	NA
Chloroform	<1.0	<1.0	0.27 T	NA
Ethylbenzene	<1.0	<1.0	<1.0	NA
Methylene chloride	<5.0	<5.0	<5.0	NA
Tetrachloroethene (PCE)	<1.0	<1.0	0.28 T	NA
Toluene	<1.0	<1.0	<1.0	NA
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0	NA
Trichloroethene (TCE)	13	5.9 J+	NA	170 DJ+
Vinyl chloride	<2.0	<2.0	<2.0	NA
Xylenes, Total	<1.0	<1.0	<1.0	NA
Surrogate (%)		<u>Limit</u>		
1,2-Dichloroethane-d4	70 - 130	88	91	89
1-Bromo-4-fluorobenzene	70 - 130	103	114	105
Toluene-D8	70 - 130	96	103	95
				105
				93

Bold Bolded result indicates positively identified compound.

NA Not analyzed.

D Sample dilution required for analysis; reported values reflect the dilution.

J- Datum is estimated, potentially biased low.

J+ Datum is estimated, potentially biased high.

T Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.

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TABLE B-1a
VOLATILE ORGANIC COMPOUNDS SAMPLE DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKEE ARMY DEPOT, UTAH
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Location Identification	D-06	D-07	D-09	D-10
Date Collected	11/16/2004	11/16/2004	11/16/2004	11/16/2004
Matrix	Groundwater	Groundwater	Groundwater	Groundwater
Analyte/Methods (Units)				
Volatile Organic Compounds/ SW8260B (µg/l)				
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0
Benzene	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	<1.0	0.52 T	<1.0	<1.0
Chloroethane	<1.0	<1.0	<1.0	<1.0
Chloroform	0.45 T	0.22 T	<1.0	<1.0
Ethylbenzene	<1.0	<1.0	<1.0	<1.0
Methylene chloride	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene (PCE)	<1.0	<1.0	<1.0	<1.0
Toluene	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0
Trichloroethene (TCE)	1.4	9.1	<1.0	1.0
Vinyl chloride	<2.0	<2.0	<2.0	<2.0
Xylenes, Total	<1.0	<1.0	<1.0	<1.0
Surrogate (%)				
1,2-Dichloroethane-d4	70 - 130	90	88	91
1-Bromo-4-fluorobenzene	70 - 130	104	101	104
Toluene-D8	70 - 130	97	100	95
99				

Bold Bolded result indicates positively identified compound.

NA Not analyzed.

D Sample dilution required for analysis; reported values reflect the dilution.

J- Datum is estimated, potentially biased low.

J+ Datum is estimated, potentially biased high.

T Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.

UJ Estimated reporting limit, potential low bias.

TABLE B-1a
VOLATILE ORGANIC COMPOUNDS SAMPLE DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKEE ARMY DEPOT, UTAH
(Page 20 of 25)

Location Identification	E-01	E-02-1	E-02-2	E-11
Date Collected	11/10/2004	11/10/2004	11/10/2004	11/10/2004
Matrix	Groundwater	Groundwater	Groundwater	Groundwater
Analyte/Methods (Units)				
Volatile Organic Compounds/ SW8260B (µg/l)				
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	0.5 T	<1.0	0.26 T	<1.0
1,1-Dichloroethene	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0
Benzene	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	0.8 T	<1.0	0.46 T	<1.0
Chloroethane	<1.0	<1.0	<1.0	<1.0
Chloroform	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	<1.0	<1.0	<1.0	<1.0
Methylene chloride	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene (PCE)	<1.0	<1.0	<1.0	<1.0
Toluene	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0
Trichloroethene (TCE)	20	15	17	8.5
Vinyl chloride	<2.0	<2.0	<2.0	<2.0
Xylenes, Total	<1.0	<1.0	<1.0	<1.0
Surrogate (%)				
1,2-Dichloroethane-d4	<u>Limit</u> 70 - 130	93	95	90
1-Bromo-4-fluorobenzene	70 - 130	106	107	104
Toluene-D8	70 - 130	104	95	101

Bold Bolded result indicates positively identified compound.

NA Not analyzed.

D Sample dilution required for analysis; reported values reflect the dilution.

J- Datum is estimated, potentially biased low.

J+ Datum is estimated, potentially biased high.

T Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.

UJ Estimated reporting limit, potential low bias.

TABLE B-1a
VOLATILE ORGANIC COMPOUNDS SAMPLE DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKEE ARMY DEPOT, UTAH
(Page 21 of 25)

Location Identification	E-12	E-12 Dup	E-13	E-14
Date Collected	11/10/2004	11/10/2004	11/10/2004	11/10/2004
Matrix	Groundwater	Groundwater	Groundwater	Groundwater
Analyte/Methods (Units)				
Volatile Organic Compounds/ SW8260B ($\mu\text{g/l}$)				
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0
Benzene	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0
Chloroethane	<1.0	<1.0	<1.0	<1.0
Chloroform	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	<1.0	<1.0	<1.0	<1.0
Methylene chloride	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene (PCE)	<1.0	<1.0	<1.0	<1.0
Toluene	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0
Trichloroethene (TCE)	<1.0	<1.0	2.7	19
Vinyl chloride	<2.0	<2.0	<2.0	<2.0
Xylenes, Total	<1.0	<1.0	<1.0	<1.0
Surrogate (%)				
1,2-Dichloroethane-d4	70 - 130	93	93	90
1-Bromo-4-fluorobenzene	70 - 130	112	106	105
Toluene-D8	70 - 130	96	97	100

Bold Bolded result indicates positively identified compound.

NA Not analyzed.

D Sample dilution required for analysis; reported values reflect the dilution.

J- Datum is estimated, potentially biased low.

J+ Datum is estimated, potentially biased high.

T Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.

UJ Estimated reporting limit, potential low bias.

TABLE B-1a
VOLATILE ORGANIC COMPOUNDS SAMPLE DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKEE ARMY DEPOT, UTAH
(Page 22 of 25)

Location Identification	E-14 Dup	E-15	EFF	INF
Date Collected	11/10/2004	11/10/2004	11/10/2004	11/10/2004
Matrix	Groundwater	Groundwater	Groundwater	Groundwater
Analyte/Methods (Units)				
Volatile Organic Compounds/ SW8260B (µg/l)				
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0
Benzene	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0
Chloroethane	<1.0	<1.0	<1.0	<1.0
Chloroform	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	<1.0	<1.0	<1.0	<1.0
Methylene chloride	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene (PCE)	<1.0	<1.0	<1.0	<1.0
Toluene	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0
Trichloroethene (TCE)	20	2.0	<1.0	6.0
Vinyl chloride	<2.0	<2.0	<2.0	<2.0
Xylenes, Total	<1.0	<1.0	<1.0	<1.0
Surrogate (%)				
1,2-Dichloroethane-d4	70 - 130	90	90	92
1-Bromo-4-fluorobenzene	70 - 130	106	110	112
Toluene-D8	70 - 130	105	97	97

Bold Bolded result indicates positively identified compound.

NA Not analyzed.

D Sample dilution required for analysis; reported values reflect the dilution.

J- Datum is estimated, potentially biased low.

J+ Datum is estimated, potentially biased high.

T Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.

UJ Estimated reporting limit, potential low bias.

TABLE B-1a
VOLATILE ORGANIC COMPOUNDS SAMPLE DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKEE ARMY DEPOT, UTAH
(Page 23 of 25)

Location Identification	N-114-88	N-115-88	N-116-88	N-117-88
Date Collected	11/23/2004	11/23/2004	11/23/2004	11/23/2004
Matrix	Groundwater	Groundwater	Groundwater	Groundwater
Analyte/Methods (Units)				
Volatile Organic Compounds/ SW8260B (µg/l)				
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0
Benzene	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0
Chloroethane	<1.0	<1.0	<1.0	<1.0
Chloroform	<1.0	<1.0	0.29 T	<1.0
Ethylbenzene	<1.0	<1.0	<1.0	<1.0
Methylene chloride	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene (PCE)	<1.0	<1.0	<1.0	<1.0
Toluene	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	2.4	<1.0
Trichloroethene (TCE)	<1.0	0.27 T	16	1.8
Vinyl chloride	<2.0	<2.0	<2.0	<2.0
Xylenes, Total	<1.0	<1.0	<1.0	<1.0
Surrogate (%)				
1,2-Dichloroethane-d4	70 - 130	106	104	106
1-Bromo-4-fluorobenzene	70 - 130	111	108	109
Toluene-D8	70 - 130	115	116	114

Bold Bolded result indicates positively identified compound.

NA Not analyzed.

D Sample dilution required for analysis; reported values reflect the dilution.

J- Datum is estimated, potentially biased low.

J+ Datum is estimated, potentially biased high.

T Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.

UJ Estimated reporting limit, potential low bias.

TABLE B-1a
VOLATILE ORGANIC COMPOUNDS SAMPLE DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKELE ARMY DEPOT, UTAH
(Page 24 of 25)

Location Identification	N-120-88	N-135-90	N-135-90 Dup	N-150-97
Date Collected	11/23/2004	11/23/2004	11/23/2004	11/23/2004
Matrix	Groundwater	Groundwater	Groundwater	Groundwater
Analyte/Methods (Units)				
Volatile Organic Compounds/ SW8260B ($\mu\text{g/l}$)		Diluted		Diluted
1,1,1-Trichloroethane	0.97 T	NA	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	NA	<1.0	<1.0
1,1-Dichloroethane	0.21 T	NA	<1.0	<1.0
1,1-Dichloroethene	0.89 T	NA	<1.0	0.29 TUJ
1,2-Dichloroethane	<1.0	NA	<1.0	<1.0
1,2-Dichloropropane	<1.0	NA	<1.0	<1.0
Benzene	<1.0	NA	<1.0	<1.0
Carbon tetrachloride	<1.0	NA	<1.0	<1.0
Chloroethane	<1.0	NA	<1.0	<1.0
Chloroform	<1.0	NA	<1.0	<1.0
Ethylbenzene	<1.0	NA	<1.0	<1.0
Methylene chloride	<5.0	NA	<5.0	<5.0
Tetrachloroethene (PCE)	11	NA	<1.0	3.9
Toluene	<1.0	NA	<1.0	<1.0
trans-1,2-Dichloroethene	2.5	NA	<1.0	8.6
Trichloroethene (TCE)	NA	480 D	5.5	5.6
Vinyl chloride	<2.0	NA	<2.0	<2.0
Xylenes, Total	<1.0	NA	<1.0	<1.0
Surrogate (%)		Limit		
1,2-Dichloroethane-d4	70 - 130	119	107	111
1-Bromo-4-fluorobenzene	70 - 130	107	109	108
Toluene-D8	70 - 130	119	114	115

Bold Bolded result indicates positively identified compound.

NA Not analyzed.

D Sample dilution required for analysis; reported values reflect the dilution.

J- Datum is estimated, potentially biased low.

J+ Datum is estimated, potentially biased high.

T Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.

UJ Estimated reporting limit, potential low bias.

TABLE B-1a
VOLATILE ORGANIC COMPOUNDS SAMPLE DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKEE ARMY DEPOT, UTAH
(Page 25 of 25)

Location Identification	T-06	
Date Collected	11/22/2004	
Matrix	Groundwater	
Analyte/Methods (Units)		
Volatile Organic Compounds/ SW8260B (µg/l)		
1,1,1-Trichloroethane		<1.0
1,1,2,2-Tetrachloroethane		<1.0
1,1-Dichloroethane		<1.0
1,1-Dichloroethene		<1.0
1,2-Dichloroethane		<1.0
1,2-Dichloropropane		<1.0
Benzene		<1.0
Carbon tetrachloride		<1.0
Chloroethane		<1.0
Chloroform		<1.0
Ethylbenzene		<1.0
Methylene chloride		<5.0
Tetrachloroethene (PCE)		<1.0
Toluene		<1.0
trans-1,2-Dichloroethene		<1.0
Trichloroethene (TCE)	22 J-	
Vinyl chloride		<2.0
Xylenes, Total		<1.0
Surrogate (%)		
1,2-Dichloroethane-d4	Limit 70 - 130	118
1-Bromo-4-fluorobenzene	70 - 130	110
Toluene-D8	70 - 130	114

Bold Bolded result indicates positively identified compound.

NA Not analyzed.

D Sample dilution required for analysis; reported values reflect the dilution.

J- Datum is estimated, potentially biased low.

J+ Datum is estimated, potentially biased high.

T Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.

UJ Estimated reporting limit, potential low bias.

TABLE B-1b
SEMI-VOLATILE ORGANIC COMPOUNDS SAMPLE DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOELA ARMY DEPOT, UTAH
(Page 1 of 2)

Location Identification	A-02A	B-07	B-26	B-34	B-34 Dup	C-09
Date Collected	11/16/2004	11/17/2004	11/16/2004	11/17/2004	11/17/2004	11/16/2004
Matrix	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Analyte/Methods (Units)						
Semi-Volatile Organic Compound/ SW8270C-SIM ($\mu\text{g/l}$)						
1,4-Dioxane		<1.0 UJ	<1.0 UJ	2.2 J-	<1.0	0.74 TJ-
Surrogate (%)	<u>Limit</u>					
Bromobenzene	60 - 120	54	57	40	61	57

Bold Bolded result indicates positively identified compound.

Bold Bolded and underlined result indicates quality control data outside acceptance criteria.

J- Datum is estimated, potentially biased low.

T Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.

UJ Estimated reporting limit, potential low bias.

TABLE B-1b
SEMI-VOLATILE ORGANIC COMPOUNDS SAMPLE DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOELA ARMY DEPOT, UTAH
(Page 2 of 2)

Location Identification	C-17	C-19	C-21	C-35	C-37
Date Collected	11/16/2004	11/16/2004	11/17/2004	11/16/2004	11/16/2004
Matrix	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Analyte/Methods (Units)					
Semi-Volatile Organic Compound/ SW8270C-SIM ($\mu\text{g/l}$)					
1,4-Dioxane	1.0 J-	26 J-	1.9 J-	7.4	0.86 TJ-
Surrogate (%)	<u>Limit</u>				
Bromobenzene	60 - 120	57	53	55	65

Bold Bolded result indicates positively identified compound.

Bold Bolded and underlined result indicates quality control data outside acceptance criteria.

J- Datum is estimated, potentially biased low.

T Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.

UJ Estimated reporting limit, potential low bias.

TABLE B-2

SUMMARY OF QUALIFIED DATA
NOVEMBER 2004
SWMU 2 - TOOELE ARMY DEPOT, UTAH
(Page 1 of 2)

Field Sample Identification	Sample Date	Analysis Method	Analyte	Sample Result	QC Units	QC Type	QC Result	Added Qualifier	QC Limit	Comment
TEAD-11-04-A-02A-KA	11/16/04	SW8270C SIM	1,4-Dioxane	<1.0	UG/L	SURR	54%	UJ	60-120%	Reporting limit is estimated. Surrogate recovery below acceptance criterion.
TEAD-11-04-B07-KA	11/17/04	SW8270C SIM	1,4-Dioxane	<1.0	UG/L	SURR	57%	UJ	60-120%	Reporting limit is estimated. Surrogate recovery below acceptance criterion.
TEAD-11-04-B26-KA	11/16/04	SW8270C SIM	1,4-Dioxane	2.2	UG/L	SURR	40%	J-	60-120%	Datum is estimated, potentially biased low. Surrogate recovery below acceptance criterion.
TEAD-11-04-B37-DF-201	11/17/04	SW8260B	Carbon tetrachloride	<1.0	µg/l	CVS	31.7%	UJ	25%	Reporting limit is estimated. CVS %D below acceptance criterion, indicating a low bias.
TEAD-11-04-B40-DF-182	11/17/04	SW8260B	Carbon tetrachloride	<1.0	µg/l	CVS	31.7%	UJ	25%	Reporting limit is estimated. CVS %D below acceptance criterion, indicating a low bias.
TEAD-11-04-B50-DF-245	11/17/04	SW8260B	Carbon tetrachloride	<1.0	µg/l	CVS	31.7%	UJ	25%	Reporting limit is estimated. CVS %D below acceptance criterion, indicating a low bias.
TEAD-11-04-B54-DF-362	11/17/04	SW8260B	Carbon tetrachloride	6.5	µg/l	CVS	28.4%	J-	25%	Datum is estimated, potentially biased low. CVS %D below acceptance criterion.
TEAD-11-04-C03-DF-263	11/17/04	SW8260B	Carbon tetrachloride	<1.0	µg/l	CVS	31.7%	UJ	25%	Reporting limit is estimated. CVS %D below acceptance criterion, indicating a low bias.
TEAD-11-04-C04-DF-240	11/17/04	SW8260B	Carbon tetrachloride	<1.0	µg/l	CVS	31.7%	UJ	25%	Reporting limit is estimated. CVS %D below acceptance criterion, indicating a low bias.
TEAD-11-04-C-09-KA	11/16/04	SW8270C SIM	1,4-Dioxane	0.74 T	UG/L	SURR	57%	J-	60-120%	Datum is estimated, potentially biased low. Surrogate recovery below acceptance criterion.
TEAD-11-04-C13-DF-311	11/17/04	SW8260B	Carbon tetrachloride	0.27 T	µg/l	CVS	31.7%	J-	25%	Datum is estimated, potentially biased low. CVS %D below acceptance criterion.
TEAD-11-04-C15-DF-349	11/17/04	SW8260B	Carbon tetrachloride	<1.0	µg/l	CVS	28.4%	UJ	25%	Reporting limit is estimated. CVS %D below acceptance criterion, indicating a low bias.
TEAD-11-04-C17-DF-357	11/15/04	SW8260B	Trichloroethene	13	µg/l	LCD	123%	J+	80-120%	Datum is estimated, potentially biased high. LCD recovery above acceptance criterion.
TEAD-11-04-C17-KA	11/16/04	SW8270C SIM	1,4-Dioxane	1.0	UG/L	SURR	57%	J-	60-120%	Datum is estimated, potentially biased low. Surrogate recovery below acceptance criterion.
TEAD-11-04-C18-DF-328	11/17/04	SW8260B	Carbon tetrachloride	<1.0	µg/l	CVS	31.7%	UJ	25%	Reporting limit is estimated. CVS %D below acceptance criterion, indicating a low bias.
TEAD-11-04-C19-KA	11/16/04	SW8270C SIM	1,4-Dioxane	26	UG/L	SURR	53%	J-	60-120%	Datum is estimated, potentially biased low. Surrogate recovery below acceptance criterion.
TEAD-11-04-C21-KA	11/17/04	SW8270C SIM	1,4-Dioxane	1.9	UG/L	SURR	55%	J-	60-120%	Datum is estimated, potentially biased low. Surrogate recovery below acceptance criterion.
TEAD-11-04-C26-DF-364	11/17/04	SW8260B	Carbon tetrachloride	0.67 T	µg/l	CVS	28.4%	J-	25%	Datum is estimated, potentially biased low. CVS %D below acceptance criterion.

TABLE B-2

SUMMARY OF QUALIFIED DATA
NOVEMBER 2004
SWMU 2 - TOOELE ARMY DEPOT, UTAH
(Page 2 of 2)

Field Sample Identification	Sample Date	Analysis Method	Analyte	Sample Result	QC Units	QC Type	QC Result	Added Qualifier	QC Limit	Comment
TEAD-11-04-C30-DF-287	11/17/04	SW8260B	Carbon tetrachloride	11	µg/l	CVS	31.7%	J-	25%	Datum is estimated, potentially biased low. CVS %D below acceptance criterion.
TEAD-11-04-C33-DF-369	11/17/04	SW8260B	Carbon tetrachloride	2.7	µg/l	CVS	28.4%	J-	25%	Datum is estimated, potentially biased low. CVS %D below acceptance criterion.
TEAD-11-04-C37-DF-428	11/15/04	SW8260B	Trichloroethene	19	µg/l	LCD	123%	J+	80-120%	Datum is estimated, potentially biased high. LCD recovery above acceptance criterion.
TEAD-11-04-C37-KA	11/16/04	SW8270C SIM	1,4-Dioxane	0.86 T	UG/L	SURR	55%	J-	60-120%	Datum is estimated, potentially biased low. Surrogate recovery below acceptance criterion.
TEAD-11-04-C39-DF-447	11/17/04	SW8260B	1,1,1-Trichloroethane	<1.0	µg/l	CVS	26.7%	UJ	25%	Reporting limit is estimated. CVS %D below acceptance criterion, indicating a low bias.
TEAD-11-04-C39-DF-447	11/17/04	SW8260B	1,2-Dichloroethane	<1.0	µg/l	CVS	27.2%	UJ	25%	Reporting limit is estimated. CVS %D below acceptance criterion, indicating a low bias.
TEAD-11-04-C39-DF-447	11/17/04	SW8260B	Carbon tetrachloride	<1.0	µg/l	CVS	37.7%	UJ	25%	Reporting limit is estimated. CVS %D below acceptance criterion, indicating a low bias.
TEAD-11-04-D03-DF-212	11/16/04	SW8260B	Trichloroethene	5.9	µg/l	CVS	27.0%	J+	25%	Datum is estimated, potentially biased high. CVS %D above acceptance criterion.
TEAD-11-04-D04-DF-279	11/16/04	SW8260B	Trichloroethene	170	µg/l	CVS	27.0%	J+	25%	Datum is estimated, potentially biased high. CVS %D above acceptance criterion.
TEAD-11-04-N15097-DF-281	11/23/04	SW8260B	1,1-Dichloroethene	0.29 T	µg/l	LCS LCD	73% 74%	J-	80-120%	Datum is estimated, potentially biased low. LCS/LCD recoveries below acceptance criterion.
TEAD-11-04-S-C39-01-DF-390	11/17/04	SW8260B	Carbon tetrachloride	<1.0	µg/l	CVS	28.4%	UJ	25%	Reporting limit is estimated. CVS %D below acceptance criterion, indicating a low bias.
TEAD-11-04-T06-DF-261	11/22/04	SW8260B	Trichloroethene	22	µg/l	MS	55%	J-	70-130%	Datum is estimated, potentially biased low. MS recovery below acceptance criterion.
171104TB01	11/17/04	SW8260B	Carbon tetrachloride	<1.0	µg/l	CVS	31.7%	UJ	25%	Reporting limit is estimated. CVS %D below acceptance criterion, indicating a low bias.
231104TB01	11/23/04	SW8260B	1,1-Dichloroethene	<1.0	µg/l	LCS LCD	77% 79%	UJ	80-120%	Reporting limit is estimated. LCS/LCD recoveries below acceptance criterion, indicating a potential low bias.

D	Sample dilution required for analysis; reported values reflect the dilution.	%D	Percent difference
J-	Datum is estimated, potentially biased high.	CVS	Calibration verification standard
J+	Datum is estimated, potentially biased high.	LCS	Laboratory control sample
UJ	Estimated reporting limit, potential low bias.	LCD	Laboratory control sample duplicate
		MS	Matrix spike
		SURR	Surrogate

TABLE B-3

SUMMARY OF QUALITY CONTROL DATA OUTSIDE ACCEPTANCE CRITERIA NOT RESULTING IN QUALIFIED DATA
NOVEMBER 2004
SWMU 2 - TOOKELE ARMY DEPOT, UTAH
(Page 1 of 1)

QC Identification	Analysis Method	QC Type	QC Result	Analyte	QC Limit	Comment	Associated Field Sample(s)	Sample Date	Sample Result	Units
CV094J14112	SW8260B	CVS	31.5%	1,1,2,2-Tetrachloroethane	25%	CVS %D above acceptance criterion, indicating a high bias. Analyte not detected in associated samples	TEAD-11-04-C20-DF-364	11/17/04	<1.0	µg/l
CV094J14112	SW8260B	CVS	29.0%	Chloroethane	25%	CVS %D above acceptance criterion, indicating a high bias. Analyte not detected in associated samples	TEAD-11-04-C20-DF-364	11/17/04	<1.0	µg/l
CV094J1474	SW8260B	CVS	29.5%	Methylene chloride	25%	CVS %Drift above acceptance criterion, indicating a high bias. Analyte not detected in associated samples.	TEAD-11-04-E01-WF TEAD-11-04-E02.1-WF TEAD-11-04-E02.2-WF TEAD-11-04-E13-WF TEAD-11-04-E14-WF TEAD-11-04-E15-WF TEAD-11-04-INF-WF TEAD-11-04-S-E14-WF TEAD-11-10-04-TB01	11/10/04 11/10/04 11/10/04 11/10/04 11/10/04 11/10/04 11/10/04 11/10/04 11/10/04	<5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0 <5.0	µg/l µg/l µg/l µg/l µg/l µg/l µg/l µg/l µg/l
CV094J1476	SW8260B	CVS	25.3%	Methylene chloride	25%	CVS %Drift above acceptance criterion, indicating a high bias. Analyte not detected in associated samples.	TEAD-11-04-E11-WF TEAD-11-04-E12-WF TEAD-11-04-EFF-WF TEAD-11-04-S-E12-WF	11/10/04 11/10/04 11/10/04 11/10/04	<5.0 <5.0 <5.0 <5.0	µg/l µg/l µg/l µg/l
TEAD-11-04-C13-DF-311	SW8260B	MSD	134%	Trichloroethene (TCE)	70-130%	Sample concentration greater than four times spike concentration.	TEAD-11-04-C13-DF-311	11/17/04	120 D	µg/l

CVS - Calibration verification standard

MSD - Matrix spike duplicate

TABLE B-4

**SAMPLE PREPARATION BATCH SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKEE ARMY DEPOT, UTAH
(Page 1 of 8)**

Location Identification	Field Sample Identification	Sample Date	Sample Type	Laboratory Sample Identification	Preparation Lot Identification	Preparation Method	Preparation Date	Analytical Method	Analysis Date
LABQC	SVK031WB	N/A	MB	SVK031WB	SVK031W	SW3520C	11/19/04	SW8270C-SIM	11/22/04
LABQC	SVK031WL	N/A	LCS	SVK031WL	SVK031W	SW3520C	11/19/04	SW8270C-SIM	11/22/04
LABQC	SVK031WC	N/A	LCD	SVK031WC	SVK031W	SW3520C	11/19/04	SW8270C-SIM	11/22/04
A-02A	TEAD-11-04-A-02A-KA	11/16/04	N	K162-01	SVK031W	SW3520C	11/19/04	SW8270C-SIM	11/22/04
B-26	TEAD-11-04-B26-KA	11/16/04	N	K162-06	SVK031W	SW3520C	11/19/04	SW8270C-SIM	11/22/04
C-09	TEAD-11-04-C-09-KA	11/16/04	N	K162-03	SVK031W	SW3520C	11/19/04	SW8270C-SIM	11/22/04
C-17	TEAD-11-04-C17-KA	11/16/04	N	K162-04	SVK031W	SW3520C	11/19/04	SW8270C-SIM	11/22/04
C-19	TEAD-11-04-C19-KA	11/16/04	N	K162-07	SVK031W	SW3520C	11/19/04	SW8270C-SIM	11/22/04
C-35	TEAD-11-04-C-35-KA	11/16/04	N	K162-02	SVK031W	SW3520C	11/19/04	SW8270C-SIM	11/22/04
C-37	TEAD-11-04-C37-KA	11/16/04	N	K162-05	SVK031W	SW3520C	11/19/04	SW8270C-SIM	11/22/04
C-37	TEAD-11-04-C37-KA	11/16/04	MS	K162-05M	SVK031W	SW3520C	11/19/04	SW8270C-SIM	11/22/04
C-37	TEAD-11-04-C37-KA	11/16/04	MSD	K162-05S	SVK031W	SW3520C	11/19/04	SW8270C-SIM	11/22/04
LABQC	SVK035WB	N/A	MB	SVK035WB	SVK035W	SW3520C	11/22/04	SW8270C-SIM	11/24/04
LABQC	SVK035WL	N/A	LCS	SVK035WL	SVK035W	SW3520C	11/22/04	SW8270C-SIM	11/24/04
LABQC	SVK035WC	N/A	LCD	SVK035WC	SVK035W	SW3520C	11/22/04	SW8270C-SIM	11/24/04
B-07	TEAD-11-04-B07-KA	11/17/04	N	K183-14	SVK035W	SW3520C	11/22/04	SW8270C-SIM	11/24/04
B-34	TEAD-11-04-B34-KA	11/17/04	N	K183-15	SVK035W	SW3520C	11/22/04	SW8270C-SIM	11/24/04
C-21	TEAD-11-04-C21-KA	11/17/04	N	K183-12	SVK035W	SW3520C	11/22/04	SW8270C-SIM	11/24/04
B-34	TEAD-11-04-S-B34-01-KA	11/17/04	FD	K183-16	SVK035W	SW3520C	11/22/04	SW8270C-SIM	11/24/04
FIELDQC	TEAD-11-04-C21-KA-EB	11/17/04	EB	K183-13	SVK035W	SW3520C	11/22/04	SW8270C-SIM	11/24/04
LABQC	VO02K51Q	N/A	MB	VO02K51Q	VO02K51	SW5030B	11/29/04	SW8260B	11/29/04
LABQC	VO02K51L	N/A	LCS	VO02K51L	VO02K51	SW5030B	11/29/04	SW8260B	11/29/04
LABQC	VO02K51C	N/A	LCD	VO02K51C	VO02K51	SW5030B	11/29/04	SW8260B	11/29/04
FIELDQC	231104TB01	11/23/04	TB	K228-01	VO02K51	SW5030B	11/29/04	SW8260B	11/29/04
LABQC	VO02K52Q	N/A	MB	VO02K52Q	VO02K52	SW5030B	11/30/04	SW8260B	11/30/04
LABQC	VO02K52L	N/A	LCS	VO02K52L	VO02K52	SW5030B	11/30/04	SW8260B	11/30/04
LABQC	VO02K52C	N/A	LCD	VO02K52C	VO02K52	SW5030B	11/30/04	SW8260B	11/30/04
N-120-88	TEAD-11-04-N12088-DF-321	11/23/04	N	K228-05	VO02K52	SW5030B	12/01/04	SW8260B	12/01/04
LABQC	VO02L01Q	N/A	MB	VO02L01Q	VO02L01	SW5030B	12/01/04	SW8260B	12/01/04

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**SAMPLE PREPARATION BATCH SUMMARY
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Location Identification	Field Sample Identification	Sample Date	Sample Type	Laboratory Sample Identification	Preparation Lot Identification	Preparation Method	Preparation Date	Analytical Method	Analysis Date
LABQC	VO02L01L	N/A	LCS	VO02L01L	VO02L01	SW5030B	12/01/04	SW8260B	12/01/04
LABQC	VO02L01C	N/A	LCD	VO02L01C	VO02L01	SW5030B	12/01/04	SW8260B	12/01/04
N-150-97	TEAD-11-04-N15097-DF-281	11/23/04	N	K228-04	VO02L01	SW5030B	12/01/04	SW8260B	12/01/04
LABQC	VO03L04Q	N/A	MB	VO03L04Q	VO03L04	SW5030B	12/02/04	SW8260B	12/02/04
LABQC	VO03L04L	N/A	LCS	VO03L04L	VO03L04	SW5030B	12/02/04	SW8260B	12/02/04
LABQC	VO03L04C	N/A	LCD	VO03L04C	VO03L04	SW5030B	12/02/04	SW8260B	12/02/04
B-03	TEAD-11-04-B03-DF-273	11/22/04	N	K215-14	VO03L04	SW5030B	12/02/04	SW8260B	12/02/04
B-05	TEAD-11-04-B05-DF-437	11/22/04	N	K215-12	VO03L04	SW5030B	12/02/04	SW8260B	12/02/04
B-22	TEAD-11-04-B22-DF-365	11/22/04	N	K215-15	VO03L04	SW5030B	12/02/04	SW8260B	12/02/04
B-27	TEAD-11-04-B27-DF-266	11/22/04	N	K215-13	VO03L04	SW5030B	12/02/04	SW8260B	12/02/04
C-25	TEAD-11-04-C25-DF-370	11/22/04	N	K215-11	VO03L04	SW5030B	12/02/04	SW8260B	12/02/04
T-06	TEAD-11-04-T06-DF-261	11/22/04	N	K215-07	VO03L04	SW5030B	12/02/04	SW8260B	12/02/04
T-06	TEAD-11-04-T06-DF-261	11/22/04	MS	K215-07M	VO03L04	SW5030B	12/02/04	SW8260B	12/02/04
T-06	TEAD-11-04-T06-DF-261	11/22/04	MSD	K215-07S	VO03L04	SW5030B	12/02/04	SW8260B	12/02/04
LABQC	VO05K81Q	N/A	MB	VO05K81Q	VO05K81	SW5030B	11/29/04	SW8260B	11/29/04
LABQC	VO05K81L	N/A	LCS	VO05K81L	VO05K81	SW5030B	11/29/04	SW8260B	11/29/04
LABQC	VO05K81C	N/A	LCD	VO05K81C	VO05K81	SW5030B	11/29/04	SW8260B	11/29/04
B-14A	TEAD-11-04-B14A-DF-270	11/18/04	N	K200-20	VO05K81	SW5030B	11/30/04	SW8260B	11/30/04
B-18	TEAD-11-04-B18-DF-220	11/18/04	N	K200-13	VO05K81	SW5030B	11/29/04	SW8260B	11/29/04
B-30	TEAD-11-04-B30-DF-237	11/18/04	N	K200-19	VO05K81	SW5030B	11/30/04	SW8260B	11/30/04
B-61	TEAD-11-04-B61-DF-455	11/18/04	N	K200-15	VO05K81	SW5030B	11/30/04	SW8260B	11/30/04
B-62	TEAD-11-04-B62-DF-279	11/18/04	N	K200-16	VO05K81	SW5030B	11/30/04	SW8260B	11/30/04
B-18	TEAD-11-04-S-B18-01-DF-260	11/18/04	FD	K200-14	VO05K81	SW5030B	11/30/04	SW8260B	11/30/04
B-59	TEAD-11-04-S-B59-01-DF-720	11/18/04	FD	K200-18	VO05K81	SW5030B	11/30/04	SW8260B	11/30/04
LABQC	VO05K86Q	N/A	MB	VO05K86Q	VO05K86	SW5030B	12/01/04	SW8260B	12/01/04
LABQC	VO05K86L	N/A	LCS	VO05K86L	VO05K86	SW5030B	12/01/04	SW8260B	12/01/04
LABQC	VO05K86C	N/A	LCD	VO05K86C	VO05K86	SW5030B	12/01/04	SW8260B	12/01/04
B-10	TEAD-11-04-B10-DF-294	11/18/04	N	K200-04	VO05K86	SW5030B	12/01/04	SW8260B	12/01/04
B-31	TEAD-11-04-B31-DF-436	11/18/04	N	K200-09	VO05K86	SW5030B	12/01/04	SW8260B	12/01/04

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Location Identification	Field Sample Identification	Sample Date	Sample Type	Laboratory Sample Identification	Preparation Lot Identification	Preparation Method	Preparation Date	Analytical Method	Analysis Date
B-59	TEAD-11-04-B59-DF-695	11/18/04	N	K200-17	VO05K86	SW5030B	12/01/04	SW8260B	12/01/04
C-08	TEAD-11-04-C08-DF-340	11/18/04	N	K200-07	VO05K86	SW5030B	12/01/04	SW8260B	12/01/04
C-10	TEAD-11-04-C10-DF-270	11/18/04	N	K200-05	VO05K86	SW5030B	12/01/04	SW8260B	12/01/04
C-11	TEAD-11-04-C11-DF-301	11/18/04	N	K200-06	VO05K86	SW5030B	12/01/04	SW8260B	12/01/04
C-14	TEAD-11-04-C14-DF-275	11/18/04	N	K200-03	VO05K86	SW5030B	12/01/04	SW8260B	12/01/04
C-08	TEAD-11-04-S-C08-01-DF-290	11/18/04	FD	K200-08	VO05K86	SW5030B	12/01/04	SW8260B	12/01/04
B-59	TEAD-11-04-B59-DF-695	11/18/04	MS	K200-17M	VO05K86	SW5030B	12/01/04	SW8260B	12/01/04
B-59	TEAD-11-04-B59-DF-695	11/18/04	MSD	K200-17S	VO05K86	SW5030B	12/01/04	SW8260B	12/01/04
FIELDQC	181104TB01	11/18/04	TB	K200-01	VO05K86	SW5030B	12/01/04	SW8260B	12/01/04
LABQC	VO05L01Q	N/A	MB	VO05L01Q	VO05L01	SW5030B	12/01/04	SW8260B	12/01/04
LABQC	VO05L01L	N/A	LCS	VO05L01L	VO05L01	SW5030B	12/01/04	SW8260B	12/01/04
LABQC	VO05L01C	N/A	LCD	VO05L01C	VO05L01	SW5030B	12/01/04	SW8260B	12/01/04
B-09	TEAD-11-04-B09-DF-380	11/18/04	N	K200-02	VO05L01	SW5030B	12/01/04	SW8260B	12/01/04
B-16	TEAD-11-04-B16-DF-290	11/18/04	N	K200-10	VO05L01	SW5030B	12/01/04	SW8260B	12/01/04
B-17	TEAD-11-04-B17-DF-450	11/18/04	N	K200-12	VO05L01	SW5030B	12/01/04	SW8260B	12/01/04
B-21	TEAD-11-04-B21-DF-261	11/22/04	N	K215-16	VO05L01	SW5030B	12/01/04	SW8260B	12/01/04
B-32	TEAD-11-04-B32-DF-230	11/18/04	N	K200-11	VO05L01	SW5030B	12/01/04	SW8260B	12/01/04
C-10	TEAD-11-04-C10-DF-270	11/18/04	N	K200-05T	VO05L01	SW5030B	12/01/04	SW8260B	12/01/04
C-34	TEAD-11-04-C34-DF-359	11/22/04	N	K215-17	VO05L01	SW5030B	12/01/04	SW8260B	12/01/04
B-14A	TEAD-11-04-S-B14A-01-DF-300	11/18/04	FD	K200-21	VO05L01	SW5030B	12/01/04	SW8260B	12/01/04
B-32	TEAD-11-04-B32-DF-230	11/18/04	MS	K200-11M	VO05L01	SW5030B	12/01/04	SW8260B	12/01/04
B-32	TEAD-11-04-B32-DF-230	11/18/04	MSD	K200-11S	VO05L01	SW5030B	12/01/04	SW8260B	12/01/04
LABQC	VO05L03B	N/A	MB	VO05L03B	VO05L03	SW5030B	12/02/04	SW8260B	12/02/04
LABQC	VO05L03L	N/A	LCS	VO05L03L	VO05L03	SW5030B	12/02/04	SW8260B	12/02/04
LABQC	VO05L03C	N/A	LCD	VO05L03C	VO05L03	SW5030B	12/02/04	SW8260B	12/02/04
B-06	TEAD-11-04-B06-DF-297	11/22/04	N	K215-05	VO05L03	SW5030B	12/02/04	SW8260B	12/02/04
B-12	TEAD-11-04-1312-DF-270	11/22/04	N	K215-04	VO05L03	SW5030B	12/02/04	SW8260B	12/02/04
B-24	TEAD-11-04-B24-DF-387	11/22/04	N	K215-09	VO05L03	SW5030B	12/02/04	SW8260B	12/02/04
B-36	TEAD-11-04-B36-DF-234	11/22/04	N	K215-08	VO05L03	SW5030B	12/02/04	SW8260B	12/02/04

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Location Identification	Field Sample Identification	Sample Date	Sample Type	Laboratory Sample Identification	Preparation Lot Identification	Preparation Method	Preparation Date	Analytical Method	Analysis Date
B-56	TEAD-11-04-B56-DF-662	11/22/04	N	K215-10	VO05L03	SW5030B	12/02/04	SW8260B	12/02/04
C-32	TEAD-11-04-C32-DF-394	11/22/04	N	K215-03	VO05L03	SW5030B	12/02/04	SW8260B	12/02/04
B-06	TEAD-11-04-S-B06-01-DF-248	11/22/04	FD	K215-06	VO05L03	SW5030B	12/02/04	SW8260B	12/02/04
C-32	TEAD-11-04-S-C32-01-DF-220	11/22/04	FD	K215-02	VO05L03	SW5030B	12/02/04	SW8260B	12/02/04
FIELDQC	221104TB01	11/22/04	TB	K215-01	VO05L03	SW5030B	12/02/04	SW8260B	12/02/04
LABQC	VO05L13Q	N/A	MB	VO05L13Q	VO05L13	SW5030B	12/05/04	SW8260B	12/05/04
LABQC	VO05L13L	N/A	LCS	VO05L13L	VO05L13	SW5030B	12/05/04	SW8260B	12/05/04
LABQC	VO05L13C	N/A	LCD	VO05L13C	VO05L13	SW5030B	12/05/04	SW8260B	12/05/04
B-03	TEAD-11-04-B03-DF-273	11/22/04	N	K215-14T	VO05L13	SW5030B	12/05/04	SW8260B	12/05/04
B-05	TEAD-11-04-B05-DF-437	11/22/04	N	K215-12T	VO05L13	SW5030B	12/05/04	SW8260B	12/05/04
B-21	TEAD-11-04-B21-DF-261	11/22/04	N	K215-16T	VO05L13	SW5030B	12/05/04	SW8260B	12/05/04
B-27	TEAD-11-04-B27-DF-266	11/22/04	N	K215-13T	VO05L13	SW5030B	12/05/04	SW8260B	12/05/04
LABQC	VO94K39Q	N/A	MB	VO94K39Q	VO94K39	SW5030B	11/18/04	SW8260B	11/18/04
LABQC	VO94K39L	N/A	LCS	VO94K39L	VO94K39	SW5030B	11/18/04	SW8260B	11/18/04
LABQC	VO94K39C	N/A	LCD	VO94K39C	VO94K39	SW5030B	11/18/04	SW8260B	11/18/04
E-01	TEAD-11-04-E01-WF	11/10/04	N	K113-08	VO94K39	SW5030B	11/18/04	SW8260B	11/18/04
E-02-1	TEAD-11-04-E02.1-WF	11/10/04	N	K113-06	VO94K39	SW5030B	11/18/04	SW8260B	11/18/04
E-02-2	TEAD-11-04-E02.2-WF	11/10/04	N	K113-05	VO94K39	SW5030B	11/18/04	SW8260B	11/18/04
E-13	TEAD-11-04-E13-WF	11/10/04	N	K113-04	VO94K39	SW5030B	11/18/04	SW8260B	11/18/04
E-14	TEAD-11-04-E14-WF	11/10/04	N	K113-02	VO94K39	SW5030B	11/18/04	SW8260B	11/18/04
E-15	TEAD-11-04-E15-WF	11/10/04	N	K113-07	VO94K39	SW5030B	11/18/04	SW8260B	11/18/04
INF	TEAD-11-04-INF-WF	11/10/04	N	K113-12	VO94K39	SW5030B	11/18/04	SW8260B	11/18/04
E-14	TEAD-11-04-S-E14-WF	11/10/04	FD	K113-03	VO94K39	SW5030B	11/18/04	SW8260B	11/18/04
INF	TEAD-11-04-INF-WF	11/10/04	MS	K113-12M	VO94K39	SW5030B	11/18/04	SW8260B	11/18/04
INF	TEAD-11-04-INF-WF	11/10/04	MSD	K113-12S	VO94K39	SW5030B	11/18/04	SW8260B	11/18/04
FIELDQC	TEAD-11-10-04-TB01	11/10/04	TB	K113-01	VO94K39	SW5030B	11/18/04	SW8260B	11/18/04
LABQC	VO94K41Q	N/A	MB	VO94K41Q	VO94K41	SW5030B	11/19/04	SW8260B	11/19/04
LABQC	VO94K41L	N/A	LCS	VO94K41L	VO94K41	SW5030B	11/19/04	SW8260B	11/19/04
LABQC	VO94K41C	N/A	LCD	VO94K41C	VO94K41	SW5030B	11/19/04	SW8260B	11/19/04

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Location Identification	Field Sample Identification	Sample Date	Sample Type	Laboratory Sample Identification	Preparation Lot Identification	Preparation Method	Preparation Date	Analytical Method	Analysis Date
E-11	TEAD-11-04-E11-WF	11/10/04	N	K113-09	VO94K41	SW5030B	11/19/04	SW8260B	11/19/04
E-12	TEAD-11-04-E12-WF	11/10/04	N	K113-10	VO94K41	SW5030B	11/19/04	SW8260B	11/19/04
EFF	TEAD-11-04-EFF-WF	11/10/04	N	K113-13	VO94K41	SW5030B	11/19/04	SW8260B	11/19/04
E-12	TEAD-11-04-S-E12-WF	11/10/04	FD	K113-11	VO94K41	SW5030B	11/19/04	SW8260B	11/19/04
LABQC	VO94K47Q	N/A	MB	VO94K47Q	VO94K47	SW5030B	11/21/04	SW8260B	11/21/04
LABQC	VO94K47L	N/A	LCS	VO94K47L	VO94K47	SW5030B	11/21/04	SW8260B	11/21/04
LABQC	VO94K47C	N/A	LCD	VO94K47C	VO94K47	SW5030B	11/21/04	SW8260B	11/21/04
B-26	TEAD-11-04-B26-DF-325	11/15/04	N	K150-07	VO94K47	SW5030B	11/21/04	SW8260B	11/21/04
C-17	TEAD-11-04-C17-DF-357	11/15/04	N	K150-04	VO94K47	SW5030B	11/21/04	SW8260B	11/21/04
C-21	TEAD-11-04-C21-DF-362	11/15/04	N	K150-02	VO94K47	SW5030B	11/21/04	SW8260B	11/21/04
C-19	TEAD-11-04-C19-DF-364	11/15/04	N	K150-03	VO94K47	SW5030B	11/21/04	SW8260B	11/21/04
C-35	TEAD-11-04-C35-DF-321	11/15/04	N	K150-05	VO94K47	SW5030B	11/21/04	SW8260B	11/21/04
C-37	TEAD-11-04-C37-DF-428	11/15/04	N	K150-06	VO94K47	SW5030B	11/21/04	SW8260B	11/21/04
FIELDQC	151104DA01	11/15/04	TB	K150-01	VO94K47	SW5030B	11/21/04	SW8260B	11/21/04
LABQC	VO94K50Q	N/A	MB	VO94K50Q	VO94K50	SW5030B	11/22/04	SW8260B	11/22/04
LABQC	VO94K50L	N/A	LCS	VO94K50L	VO94K50	SW5030B	11/22/04	SW8260B	11/22/04
LABQC	VO94K50C	N/A	LCD	VO94K50C	VO94K50	SW5030B	11/22/04	SW8260B	11/22/04
A-02A	TEAD-11-04-A02A-DF-290	11/15/04	N	K150-08R	VO94K50	SW5030B	11/22/04	SW8260B	11/22/04
B-26	TEAD-11-04-B26-DF-325	11/15/04	N	K150-07T	VO94K50	SW5030B	11/22/04	SW8260B	11/22/04
C-02	TEAD-11-04-C2-DF-362	11/15/04	N	K150-02T	VO94K50	SW5030B	11/22/04	SW8260B	11/22/04
C-09	TEAD-11-04-C09-DF-364	11/15/04	N	K150-09T	VO94K50	SW5030B	11/22/04	SW8260B	11/22/04
C-19	TEAD-11-04-C19-DF-364	11/15/04	N	K150-03T	VO94K50	SW5030B	11/22/04	SW8260B	11/22/04
C-35	TEAD-11-04-C35-DF-321	11/15/04	N	K150-05T	VO94K50	SW5030B	11/22/04	SW8260B	11/22/04
LABQC	VO94K53Q	N/A	MB	VO94K53Q	VO94K53	SW5030B	11/23/04	SW8260B	11/23/04
LABQC	VO94K53L	N/A	LCS	VO94K53L	VO94K53	SW5030B	11/23/04	SW8260B	11/23/04
LABQC	VO94K53C	N/A	LCD	VO94K53C	VO94K53	SW5030B	11/23/04	SW8260B	11/23/04
D-02	TEAD-11-04-D2-DF-362	11/16/04	N	K163-03	VO94K53	SW5030B	11/24/04	SW8260B	11/24/04
D-04	TEAD-11-04-D04-DF-279	11/16/04	N	K163-05	VO94K53	SW5030B	11/24/04	SW8260B	11/24/04
D-10	TEAD-11-04-D10-DF-193	11/16/04	N	K163-04	VO94K53	SW5030B	11/24/04	SW8260B	11/24/04

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Location Identification	Field Sample Identification	Sample Date	Sample Type	Laboratory Sample Identification	Preparation Lot Identification	Preparation Method	Preparation Date	Analytical Method	Analysis Date
FIELDQC	161104TB01	11/16/04	TB	K163-01	VO94K53	SW5030B	11/23/04	SW8260B	11/23/04
LABQC	VO94K55Q	N/A	MB	VO94K55Q	VO94K55	SW5030B	11/24/04	SW8260B	11/24/04
LABQC	VO94K55L	N/A	LCS	VO94K55L	VO94K55	SW5030B	11/24/04	SW8260B	11/24/04
LABQC	VO94K55C	N/A	LCD	VO94K55C	VO94K55	SW5030B	11/24/04	SW8260B	11/24/04
D-01	TEAD-11-04-D01-DF-272	11/16/04	N	K163-09	VO94K55	SW5030B	11/24/04	SW8260B	11/24/04
D-05	TEAD-11-04-D05-DF-202	11/16/04	N	K163-07	VO94K55	SW5030B	11/24/04	SW8260B	11/24/04
D-06	TEAD-11-04-D06-DF-287	11/16/04	N	K163-10	VO94K55	SW5030B	11/24/04	SW8260B	11/24/04
D-07	TEAD-11-04-D07-DF-212	11/16/04	N	K163-08	VO94K55	SW5030B	11/24/04	SW8260B	11/24/04
D-09	TEAD-11-04-D09-DF-134	11/16/04	N	K163-11	VO94K55	SW5030B	11/24/04	SW8260B	11/24/04
LABQC	VO94K56Q	N/A	MB	VO94K56Q	VO94K56	SW5030B	11/24/04	SW8260B	11/24/04
LABQC	VO94K56L	N/A	LCS	VO94K56L	VO94K56	SW5030B	11/24/04	SW8260B	11/24/04
LABQC	VO94K56C	N/A	LCD	VO94K56C	VO94K56	SW5030B	11/24/04	SW8260B	11/24/04
B-07	TEAD-11-04-B07-DF-290	11/15/04	N	K150-10R	VO94K56	SW5030B	11/25/04	SW8260B	11/25/04
B-19	TEAD-11-04-B19-DF-266	11/15/04	N	K150-13R	VO94K56	SW5030B	11/25/04	SW8260B	11/25/04
B-34	TEAD-11-04-B34-DF-236	11/15/04	N	K150-11R	VO94K56	SW5030B	11/25/04	SW8260B	11/25/04
B-35	TEAD-11-04-B35-DF-224	11/15/04	N	K150-12R	VO94K56	SW5030B	11/25/04	SW8260B	11/25/04
C-09	TEAD-11-04-C09-DF-364	11/15/04	N	K150-09R	VO94K56	SW5030B	11/25/04	SW8260B	11/25/04
LABQC	VO94K60Q	N/A	MB	VO94K60Q	VO94K60	SW5030B	11/26/04	SW8260B	11/26/04
LABQC	VO94K60L	N/A	LCS	VO94K60L	VO94K60	SW5030B	11/26/04	SW8260B	11/26/04
LABQC	VO94K60C	N/A	LCD	VO94K60C	VO94K60	SW5030B	11/26/04	SW8260B	11/26/04
D-03	TEAD-11-04-D03-DF-212	11/16/04	N	K163-06R	VO94K60	SW5030B	11/26/04	SW8260B	11/26/04
D-04	TEAD-11-04-D04-DF-279	11/16/04	N	K163-05T	VO94K60	SW5030B	11/26/04	SW8260B	11/26/04
FIELDQC	TEAD-11-04-SW-DF	11/16/04	EB	K163-02R	VO94K60	SW5030B	11/26/04	SW8260B	11/26/04
LABQC	VO94K66Q	N/A	MB	VO94K66Q	VO94K66	SW5030B	11/28/04	SW8260B	11/28/04
LABQC	VO94K66L	N/A	LCS	VO94K66L	VO94K66	SW5030B	11/28/04	SW8260B	11/28/04
LABQC	VO94K66C	N/A	LCD	VO94K66C	VO94K66	SW5030B	11/28/04	SW8260B	11/28/04
B-37	TEAD-11-04-B37-DF-201	11/17/04	N	K183-04	VO94K66	SW5030B	11/28/04	SW8260B	11/28/04
B-40	TEAD-11-04-B40-DF-182	11/17/04	N	K183-03	VO94K66	SW5030B	11/28/04	SW8260B	11/28/04
B-50	TEAD-11-04-B50-DF-245	11/17/04	N	K183-02	VO94K66	SW5030B	11/28/04	SW8260B	11/28/04

TABLE B-4

**SAMPLE PREPARATION BATCH SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKEE ARMY DEPOT, UTAH
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Location Identification	Field Sample Identification	Sample Date	Sample Type	Laboratory Sample Identification	Preparation Lot Identification	Preparation Method	Preparation Date	Analytical Method	Analysis Date
C-03	TEAD-11-04-C03-DF-263	11/17/04	N	K183-05	VO94K66	SW5030B	11/28/04	SW8260B	11/28/04
C-04	TEAD-11-04-C04-DF-240	11/17/04	N	K183-06	VO94K66	SW5030B	11/28/04	SW8260B	11/28/04
C-13	TEAD-11-04-C13-DF-311	11/17/04	N	K183-09	VO94K66	SW5030B	11/28/04	SW8260B	11/28/04
C-18	TEAD-11-04-C18-DF-328	11/17/04	N	K183-08	VO94K66	SW5030B	11/28/04	SW8260B	11/28/04
C-30	TEAD-11-04-C30-DF-287	11/17/04	N	K183-07	VO94K66	SW5030B	11/28/04	SW8260B	11/28/04
C-13	TEAD-11-04-C13-DF-311	11/17/04	MS	K183-09M	VO94K66	SW5030B	11/28/04	SW8260B	11/28/04
C-13	TEAD-11-04-C13-DF-311	11/17/04	MSD	K183-09S	VO94K66	SW5030B	11/28/04	SW8260B	11/28/04
FIELDQC	171104TB01	11/17/04	TB	K183-01	VO94K66	SW5030B	11/28/04	SW8260B	11/28/04
LABQC	VO94K68Q	N/A	MB	VO94K68Q	VO94K68	SW5030B	11/29/04	SW8260B	11/29/04
LABQC	VO94K68L	N/A	LCS	VO94K68L	VO94K68	SW5030B	11/29/04	SW8260B	11/29/04
LABQC	VO94K68C	N/A	LCD	VO94K68C	VO94K68	SW5030B	11/29/04	SW8260B	11/29/04
B-54	TEAD-11-04-B54-DF-362	11/17/04	N	K183-11	VO94K68	SW5030B	11/29/04	SW8260B	11/29/04
C-13	TEAD-11-04-C13-DF-311	11/17/04	N	K183-09T	VO94K68	SW5030B	11/29/04	SW8260B	11/29/04
C-15	TEAD-11-04-C15-DF-349	11/17/04	N	K183-10	VO94K68	SW5030B	11/29/04	SW8260B	11/29/04
C-26	TEAD-11-04-C26-DF-364	11/17/04	N	K183-19	VO94K68	SW5030B	11/29/04	SW8260B	11/29/04
C-33	TEAD-11-04-C33-DF-369	11/17/04	N	K183-18	VO94K68	SW5030B	11/29/04	SW8260B	11/29/04
C-39	TEAD-11-04-S-C39-01-DF-390	11/17/04	FD	K183-21	VO94K68	SW5030B	11/29/04	SW8260B	11/29/04
LABQC	VO94K69Q	N/A	MB	VO94K69Q	VO94K69	SW5030B	11/30/04	SW8260B	11/30/04
LABQC	VO94K69L	N/A	LCS	VO94K69L	VO94K69	SW5030B	11/30/04	SW8260B	11/30/04
LABQC	VO94K69C	N/A	LCD	VO94K69C	VO94K69	SW5030B	11/30/04	SW8260B	11/30/04
C-20	TEAD-11-04-C20-DF-364	11/17/04	N	K183-20R	VO94K69	SW5030B	11/30/04	SW8260B	11/30/04
C-26	TEAD-11-04-C26-DF-364	11/17/04	N	K183-19T	VO94K69	SW5030B	11/30/04	SW8260B	11/30/04
LABQC	VO94L01Q	N/A	MB	VO94L01Q	VO94L01	SW5030B	12/01/04	SW8260B	12/01/04
LABQC	VO94L01L	N/A	LCS	VO94L01L	VO94L01	SW5030B	12/01/04	SW8260B	12/01/04
LABQC	VO94L01C	N/A	LCD	VO94L01C	VO94L01	SW5030B	12/01/04	SW8260B	12/01/04
C-33	TEAD-11-04-C33-DF-369	11/17/04	N	K183-18I	VO94L01	SW5030B	12/01/04	SW8260B	12/01/04
C-39	TEAD-11-04-C39-DF-447	11/17/04	N	K183-17R	VO94L01	SW5030B	12/01/04	SW8260B	12/01/04
LABQC	VO94L11Q	N/A	MB	VO94L11Q	VO94L11	SW5030B	12/06/04	SW8260B	12/06/04
LABQC	VO94L11L	N/A	LCS	VO94L11L	VO94L11	SW5030B	12/06/04	SW8260B	12/06/04

TABLE B-4

**SAMPLE PREPARATION BATCH SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKEE ARMY DEPOT, UTAH
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Location Identification	Field Sample Identification	Sample Date	Sample Type	Laboratory Sample Identification	Preparation Lot Identification	Preparation Method	Preparation Date	Analytical Method	Analysis Date
LABQC	VO94L11C	N/A	LCD	VO94L11C	VO94L11	SW5030B	12/06/04	SW8260B	12/06/04
C-40	TEAD-11-04-C40-DF-285	11/23/04	N	K228-12R	VO94L11	SW5030B	12/06/04	SW8260B	12/06/04
N-114-88	TEAD-11-04-N11488-DF-324	11/23/04	N	K228-06R	VO94L11	SW5030B	12/06/04	SW8260B	12/06/04
N-115-88	TEAD-11-04-N11588-DF-285	11/23/04	N	K228-10R	VO94L11	SW5030B	12/06/04	SW8260B	12/06/04
N-116-88	TEAD-11-04-N11688-DF-285	11/23/04	N	K228-11R	VO94L11	SW5030B	12/06/04	SW8260B	12/06/04
N-117-88	TEAD-11-04-N11788-DF-237	11/23/04	N	K228-09R	VO94L11	SW5030B	12/06/04	SW8260B	12/06/04
N-135-90	TEAD-11-04-N13590-DF-240	11/23/04	N	K228-07R	VO94L11	SW5030B	12/06/04	SW8260B	12/06/04
C-40	TEAD-11-04-S-C40-01-DF-285	11/23/04	FD	K228-13R	VO94L11	SW5030B	12/06/04	SW8260B	12/06/04
N-135-90	TEAD-11-04-S-N13590-01-DF-200	11/23/04	FD	K228-08R	VO94L11	SW5030B	12/06/04	SW8260B	12/06/04
LABQC	VO94L13Q	N/A	MB	VO94L13Q	VO94L13	SW5030B	12/07/04	SW8260B	12/07/04
LABQC	VO94L13L	N/A	LCS	VO94L13L	VO94L13	SW5030B	12/07/04	SW8260B	12/07/04
LABQC	VO94L13C	N/A	LCD	VO94L13C	VO94L13	SW5030B	12/07/04	SW8260B	12/07/04
C-12	TEAD-11-04-C12-DF-305	11/23/04	N	K228-02R	VO94L13	SW5030B	12/07/04	SW8260B	12/07/04
C-12	TEAD-11-04-C12-DF-305	11/23/04	N	K228-02T	VO94L13	SW5030B	12/07/04	SW8260B	12/07/04
C-38	TEAD-11-04-C38-DF-495	11/23/04	N	K228-03R	VO94L13	SW5030B	12/07/04	SW8260B	12/07/04
C-40	TEAD-11-04-C40-DF-285	11/23/04	N	K228-12T	VO94L13	SW5030B	12/07/04	SW8260B	12/07/04
N-120-88	TEAD-11-04-N12088-DF-321	11/23/04	N	K228-05T	VO94L13	SW5030B	12/07/04	SW8260B	12/07/04
N-150-97	TEAD-11-04-N15097-DF-281	11/23/04	N	K228-04T	VO94L13	SW5030B	12/07/04	SW8260B	12/07/04
C-40	TEAD-11-04-S-C40-01-DF-285	11/23/04	FD	K228-13T	VO94L13	SW5030B	12/07/04	SW8260B	12/07/04

EB - Equipment rinseate blank

N - Investigative sample

FD - Field duplicate

N/A - Not applicable

LCD - Laboratory control sample duplicate

TB - Trip blank

LCS - Laboratory control sample

MB - Method blank

MS - Matrix spike

MSD - Matrix spike duplicate

TABLE B-5
HOLDING TIME SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKEE ARMY DEPOT, UTAH
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Location Identification	Field Sample Identification	Laboratory Sample Identification	Sample Date	Analytical Method	Preparation Date	Holding Time	Method Holding Time	Analytical Date	Holding Time	Method Holding Time
A-02A	TEAD-11-04-A02A-DF-290	K150-08R	11/15/04	SW8260B	11/22/04	N/A	N/A	11/22/04	7	14
A-02A	TEAD-11-04-A-02A-KA	K162-01	11/16/04	SW8270C-SIM	11/19/04	3	7	11/22/04	3	40
B-03	TEAD-11-04-B03-DF-273	K215-14	11/22/04	SW8260B	12/02/04	N/A	N/A	12/02/04	10	14
B-03	TEAD-11-04-B03-DF-273	K215-14T	11/22/04	SW8260B	12/05/04	N/A	N/A	12/05/04	13	14
B-05	TEAD-11-04-B05-DF-437	K215-12	11/22/04	SW8260B	12/02/04	N/A	N/A	12/02/04	10	14
B-05	TEAD-11-04-B05-DF-437	K215-12T	11/22/04	SW8260B	12/05/04	N/A	N/A	12/05/04	13	14
B-06	TEAD-11-04-B06-DF-297	K215-05	11/22/04	SW8260B	12/02/04	N/A	N/A	12/02/04	10	14
B-06	TEAD-11-04-S-B06-01-DF-248	K215-06	11/22/04	SW8260B	12/02/04	N/A	N/A	12/02/04	10	14
B-07	TEAD-11-04-B07-DF-290	K150-10R	11/15/04	SW8260B	11/25/04	N/A	N/A	11/25/04	10	14
B-07	TEAD-11-04-B07-KA	K183-14	11/17/04	SW8270C-SIM	11/22/04	5	7	11/24/04	2	40
B-09	TEAD-11-04-B09-DF-380	K200-02	11/18/04	SW8260B	12/01/04	N/A	N/A	12/01/04	13	14
B-10	TEAD-11-04-B10-DF-294	K200-04	11/18/04	SW8260B	12/01/04	N/A	N/A	12/01/04	13	14
B-12	TEAD-11-04-1312-DF-270	K215-04	11/22/04	SW8260B	12/02/04	N/A	N/A	12/02/04	10	14
B-14A	TEAD-11-04-B14A-DF-270	K200-20	11/18/04	SW8260B	11/30/04	N/A	N/A	11/30/04	12	14
B-14A	TEAD-11-04-S-B14A-01-DF-300	K200-21	11/18/04	SW8260B	12/01/04	N/A	N/A	12/01/04	13	14
B-16	TEAD-11-04-B16-DF-290	K200-10	11/18/04	SW8260B	12/01/04	N/A	N/A	12/01/04	13	14
B-17	TEAD-11-04-B17-DF-450	K200-12	11/18/04	SW8260B	12/01/04	N/A	N/A	12/01/04	13	14
B-18	TEAD-11-04-B18-DF-220	K200-13	11/18/04	SW8260B	11/29/04	N/A	N/A	11/29/04	11	14
B-18	TEAD-11-04-S-B18-01-DF-260	K200-14	11/18/04	SW8260B	11/30/04	N/A	N/A	11/30/04	12	14
B-19	TEAD-11-04-B19-DF-266	K150-13R	11/15/04	SW8260B	11/25/04	N/A	N/A	11/25/04	10	14
B-21	TEAD-11-04-B21-DF-261	K215-16	11/22/04	SW8260B	12/01/04	N/A	N/A	12/01/04	9	14
B-21	TEAD-11-04-B21-DF-261	K215-16T	11/22/04	SW8260B	12/05/04	N/A	N/A	12/05/04	13	14
B-22	TEAD-11-04-B22-DF-365	K215-15	11/22/04	SW8260B	12/02/04	N/A	N/A	12/02/04	10	14
B-24	TEAD-11-04-B24-DF-387	K215-09	11/22/04	SW8260B	12/02/04	N/A	N/A	12/02/04	10	14
B-26	TEAD-11-04-B26-DF-325	K150-07	11/15/04	SW8260B	11/21/04	N/A	N/A	11/21/04	6	14
B-26	TEAD-11-04-B26-DF-325	K150-07T	11/15/04	SW8260B	11/22/04	N/A	N/A	11/22/04	7	14
B-26	TEAD-11-04-B26-KA	K162-06	11/16/04	SW8270C-SIM	11/19/04	3	7	11/22/04	3	40
B-27	TEAD-11-04-B27-DF-266	K215-13	11/22/04	SW8260B	12/02/04	N/A	N/A	12/02/04	10	14

TABLE B-5
HOLDING TIME SUMMARY
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SWMU 2 - TOOKELE ARMY DEPOT, UTAH
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Location Identification	Field Sample Identification	Laboratory Sample Identification		Analytical Method	Preparation Date	Holding Time	Method Holding Time	Analytical Date	Holding Time	Method Holding Time
		Sample Identification	Date							
B-27	TEAD-11-04-B27-DF-266	K215-13T	11/22/04	SW8260B	12/05/04	N/A	N/A	12/05/04	13	14
B-30	TEAD-11-04-B30-DF-237	K200-19	11/18/04	SW8260B	11/30/04	N/A	N/A	11/30/04	12	14
B-31	TEAD-11-04-B31-DF-436	K200-09	11/18/04	SW8260B	12/01/04	N/A	N/A	12/01/04	13	14
B-32	TEAD-11-04-B32-DF-230	K200-11	11/18/04	SW8260B	12/01/04	N/A	N/A	12/01/04	13	14
B-34	TEAD-11-04-B34-DF-236	K150-11R	11/15/04	SW8260B	11/25/04	N/A	N/A	11/25/04	10	14
B-34	TEAD-11-04-B34-KA	K183-15	11/17/04	SW8270C-SIM	11/22/04	5	7	11/24/04	2	40
B-34	TEAD-11-04-S-B34-01-KA	K183-16	11/17/04	SW8270C-SIM	11/22/04	5	7	11/24/04	2	40
B-35	TEAD-11-04-B35-DF-224	K150-12R	11/15/04	SW8260B	11/25/04	N/A	N/A	11/25/04	10	14
B-36	TEAD-11-04-B36-DF-234	K215-08	11/22/04	SW8260B	12/02/04	N/A	N/A	12/02/04	10	14
B-37	TEAD-11-04-B37-DF-201	K183-04	11/17/04	SW8260B	11/28/04	N/A	N/A	11/28/04	11	14
B-40	TEAD-11-04-B40-DF-182	K183-03	11/17/04	SW8260B	11/28/04	N/A	N/A	11/28/04	11	14
B-50	TEAD-11-04-B50-DF-245	K183-02	11/17/04	SW8260B	11/28/04	N/A	N/A	11/28/04	11	14
B-54	TEAD-11-04-B54-DF-362	K183-11	11/17/04	SW8260B	11/29/04	N/A	N/A	11/29/04	12	14
B-56	TEAD-11-04-B56-DF-662	K215-10	11/22/04	SW8260B	12/02/04	N/A	N/A	12/02/04	10	14
B-59	TEAD-11-04-B59-DF-695	K200-17	11/18/04	SW8260B	12/01/04	N/A	N/A	12/01/04	13	14
B-59	TEAD-11-04-S-B59-01-DF-720	K200-18	11/18/04	SW8260B	11/30/04	N/A	N/A	11/30/04	12	14
B-61	TEAD-11-04-B61-DF-455	K200-15	11/18/04	SW8260B	11/30/04	N/A	N/A	11/30/04	12	14
B-62	TEAD-11-04-B62-DF-279	K200-16	11/18/04	SW8260B	11/30/04	N/A	N/A	11/30/04	12	14
C-03	TEAD-11-04-C03-DF-263	K183-05	11/17/04	SW8260B	11/28/04	N/A	N/A	11/28/04	11	14
C-04	TEAD-11-04-C04-DF-240	K183-06	11/17/04	SW8260B	11/28/04	N/A	N/A	11/28/04	11	14
C-08	TEAD-11-04-C08-DF-340	K200-07	11/18/04	SW8260B	12/01/04	N/A	N/A	12/01/04	13	14
C-08	TEAD-11-04-S-C08-01-DF-290	K200-08	11/18/04	SW8260B	12/01/04	N/A	N/A	12/01/04	13	14
C-09	TEAD-11-04-C09-DF-364	K150-09R	11/15/04	SW8260B	11/25/04	N/A	N/A	11/25/04	10	14
C-09	TEAD-11-04-C09-DF-364	K150-09T	11/15/04	SW8260B	11/22/04	N/A	N/A	11/22/04	7	14
C-09	TEAD-11-04-C-09-KA	K162-03	11/16/04	SW8270C-SIM	11/19/04	3	7	11/22/04	3	40
C-10	TEAD-11-04-C10-DF-270	K200-05	11/18/04	SW8260B	12/01/04	N/A	N/A	12/01/04	13	14
C-10	TEAD-11-04-C10-DF-270	K200-05T	11/18/04	SW8260B	12/01/04	N/A	N/A	12/01/04	13	14
C-11	TEAD-11-04-C11-DF-301	K200-06	11/18/04	SW8260B	12/01/04	N/A	N/A	12/01/04	13	14

TABLE B-5
HOLDING TIME SUMMARY
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SWMU 2 - TOOKEE ARMY DEPOT, UTAH
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Location Identification	Field Sample Identification	Laboratory Sample Identification	Sample Date	Analytical Method	Preparation Date	Holding Time	Method Holding Time	Analytical Date	Holding Time	Method Holding Time
C-12	TEAD-11-04-C12-DF-305	K228-02R	11/23/04	SW8260B	12/07/04	N/A	N/A	12/07/04	14	14
C-12	TEAD-11-04-C12-DF-305	K228-02T	11/23/04	SW8260B	12/07/04	N/A	N/A	12/07/04	14	14
C-13	TEAD-11-04-C13-DF-311	K183-09	11/17/04	SW8260B	11/28/04	N/A	N/A	11/28/04	11	14
C-13	TEAD-11-04-C13-DF-311	K183-09T	11/17/04	SW8260B	11/29/04	N/A	N/A	11/29/04	12	14
C-14	TEAD-11-04-C14-DF-275	K200-03	11/18/04	SW8260B	12/01/04	N/A	N/A	12/01/04	13	14
C-15	TEAD-11-04-C15-DF-349	K183-10	11/17/04	SW8260B	11/29/04	N/A	N/A	11/29/04	12	14
C-17	TEAD-11-04-C17-DF-357	K150-04	11/15/04	SW8260B	11/21/04	N/A	N/A	11/21/04	6	14
C-17	TEAD-11-04-C17-KA	K162-04	11/16/04	SW8270C-SIM	11/19/04	3	7	11/22/04	3	40
C-18	TEAD-11-04-C18-DF-328	K183-08	11/17/04	SW8260B	11/28/04	N/A	N/A	11/28/04	11	14
C-19	TEAD-11-04-C19-DF-364	K150-03	11/15/04	SW8260B	11/21/04	N/A	N/A	11/21/04	6	14
C-19	TEAD-11-04-C19-DF-364	K150-03T	11/15/04	SW8260B	11/22/04	N/A	N/A	11/22/04	7	14
C-19	TEAD-11-04-C19-KA	K162-07	11/16/04	SW8270C-SIM	11/19/04	3	7	11/22/04	3	40
C-20	TEAD-11-04-C20-DF-364	K183-20R	11/17/04	SW8260B	11/30/04	N/A	N/A	11/30/04	13	14
C-21	TEAD-11-04-C21-DF-362	K150-02	11/15/04	SW8260B	11/21/04	N/A	N/A	11/21/04	6	14
C-21	TEAD-11-04-C21-DF-362	K150-02T	11/15/04	SW8260B	11/22/04	N/A	N/A	11/22/04	7	14
C-21	TEAD-11-04-C21-KA	K183-12	11/17/04	SW8270C-SIM	11/22/04	5	7	11/24/04	2	40
C-25	TEAD-11-04-C25-DF-370	K215-11	11/22/04	SW8260B	12/02/04	N/A	N/A	12/02/04	10	14
C-26	TEAD-11-04-C26-DF-364	K183-19	11/17/04	SW8260B	11/29/04	N/A	N/A	11/29/04	12	14
C-26	TEAD-11-04-C26-DF-364	K183-19T	11/17/04	SW8260B	11/30/04	N/A	N/A	11/30/04	13	14
C-30	TEAD-11-04-C30-DF-287	K183-07	11/17/04	SW8260B	11/28/04	N/A	N/A	11/28/04	11	14
C-32	TEAD-11-04-C32-DF-394	K215-03	11/22/04	SW8260B	12/02/04	N/A	N/A	12/02/04	10	14
C-32	TEAD-11-04-S-C32-01-DF-220	K215-02	11/22/04	SW8260B	12/02/04	N/A	N/A	12/02/04	10	14
C-33	TEAD-11-04-C33-DF-369	K183-18	11/17/04	SW8260B	11/29/04	N/A	N/A	11/29/04	12	14
C-33	TEAD-11-04-C33-DF-369	K183-18I	11/17/04	SW8260B	12/01/04	N/A	N/A	12/01/04	14	14
C-34	TEAD-11-04-C34-DF-359	K215-17	11/22/04	SW8260B	12/01/04	N/A	N/A	12/01/04	9	14
C-35	TEAD-11-04-C35-DF-321	K150-05	11/15/04	SW8260B	11/21/04	N/A	N/A	11/21/04	6	14
C-35	TEAD-11-04-C35-DF-321	K150-05T	11/15/04	SW8260B	11/22/04	N/A	N/A	11/22/04	7	14
C-35	TEAD-11-04-C-35-KA	K162-02	11/16/04	SW8270C-SIM	11/19/04	3	7	11/22/04	3	40

TABLE B-5

**HOLDING TIME SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKELE ARMY DEPOT, UTAH
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Location Identification	Field Sample Identification	Laboratory Sample Identification		Sample Date	Analytical Method	Preparation Date	Holding Time	Method Holding Time	Analytical Date	Method Holding Time	Method Holding Time
		Sample Identification	Date								
C-37	TEAD-11-04-C37-DF-428	K150-06	11/15/04	SW8260B	11/21/04	N/A	N/A	11/21/04	6	14	
C-37	TEAD-11-04-C37-KA	K162-05	11/16/04	SW8270C-SIM	11/19/04	3	7	11/22/04	3	40	
C-38	TEAD-11-04-C38-DF-495	K228-03R	11/23/04	SW8260B	12/07/04	N/A	N/A	12/07/04	14	14	
C-39	TEAD-11-04-C39-DF-447	K183-17R	11/17/04	SW8260B	12/01/04	N/A	N/A	12/01/04	14	14	
C-39	TEAD-11-04-S-C39-01-DF-390	K183-21	11/17/04	SW8260B	11/29/04	N/A	N/A	11/29/04	12	14	
C-40	TEAD-11-04-C40-DF-285	K228-12R	11/23/04	SW8260B	12/06/04	N/A	N/A	12/06/04	13	14	
C-40	TEAD-11-04-C40-DF-285	K228-12T	11/23/04	SW8260B	12/07/04	N/A	N/A	12/07/04	14	14	
C-40	TEAD-11-04-S-C40-01-DF-285	K228-13R	11/23/04	SW8260B	12/06/04	N/A	N/A	12/06/04	13	14	
C-40	TEAD-11-04-S-C40-01-DF-285	K228-13T	11/23/04	SW8260B	12/07/04	N/A	N/A	12/07/04	14	14	
D-01	TEAD-11-04-D01-DF-272	K163-09	11/16/04	SW8260B	11/24/04	N/A	N/A	11/24/04	8	14	
D-02	TEAD-11-04-D2-DF-362	K163-03	11/16/04	SW8260B	11/24/04	N/A	N/A	11/24/04	8	14	
D-03	TEAD-11-04-D03-DF-212	K163-06R	11/16/04	SW8260B	11/26/04	N/A	N/A	11/26/04	10	14	
D-04	TEAD-11-04-D04-DF-279	K163-05	11/16/04	SW8260B	11/24/04	N/A	N/A	11/24/04	8	14	
D-04	TEAD-11-04-D04-DF-279	K163-05T	11/16/04	SW8260B	11/26/04	N/A	N/A	11/26/04	10	14	
D-05	TEAD-11-04-D05-DF-202	K163-07	11/16/04	SW8260B	11/24/04	N/A	N/A	11/24/04	8	14	
D-06	TEAD-11-04-D06-DF-287	K163-10	11/16/04	SW8260B	11/24/04	N/A	N/A	11/24/04	8	14	
D-07	TEAD-11-04-D07-DF-212	K163-08	11/16/04	SW8260B	11/24/04	N/A	N/A	11/24/04	8	14	
D-09	TEAD-11-04-D09-DF-134	K163-11	11/16/04	SW8260B	11/24/04	N/A	N/A	11/24/04	8	14	
D-10	TEAD-11-04-D10-DF-193	K163-04	11/16/04	SW8260B	11/24/04	N/A	N/A	11/24/04	8	14	
E-01	TEAD-11-04-E01-WF	K113-08	11/10/04	SW8260B	11/18/04	N/A	N/A	11/18/04	8	14	
E-02-1	TEAD-11-04-E02.1-WF	K113-06	11/10/04	SW8260B	11/18/04	N/A	N/A	11/18/04	8	14	
E-02-2	TEAD-11-04-E02.2-WF	K113-05	11/10/04	SW8260B	11/18/04	N/A	N/A	11/18/04	8	14	
E-11	TEAD-11-04-E11-WF	K113-09	11/10/04	SW8260B	11/19/04	N/A	N/A	11/19/04	9	14	
E-12	TEAD-11-04-E12-WF	K113-10	11/10/04	SW8260B	11/19/04	N/A	N/A	11/19/04	9	14	
E-12	TEAD-11-04-S-E12-WF	K113-11	11/10/04	SW8260B	11/19/04	N/A	N/A	11/19/04	9	14	
E-13	TEAD-11-04-E13-WF	K113-04	11/10/04	SW8260B	11/18/04	N/A	N/A	11/18/04	8	14	
E-14	TEAD-11-04-E14-WF	K113-02	11/10/04	SW8260B	11/18/04	N/A	N/A	11/18/04	8	14	
E-14	TEAD-11-04-S-E14-WF	K113-03	11/10/04	SW8260B	11/18/04	N/A	N/A	11/18/04	8	14	

TABLE B-5
HOLDING TIME SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKEE ARMY DEPOT, UTAH
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Location Identification	Field Sample Identification	Laboratory Sample Identification		Analytical Method	Preparation Date	Holding Time	Method Holding Time	Analytical Date	Holding Time	Method Holding Time
		Sample Identification	Date							
E-15	TEAD-11-04-E15-WF	K113-07	11/10/04	SW8260B	11/18/04	N/A	N/A	11/18/04	8	14
EFF	TEAD-11-04-EFF-WF	K113-13	11/10/04	SW8260B	11/19/04	N/A	N/A	11/19/04	9	14
FIELDQC	151104DA01	K150-01	11/15/04	SW8260B	11/21/04	N/A	N/A	11/21/04	6	14
FIELDQC	161104TB01	K163-01	11/16/04	SW8260B	11/23/04	N/A	N/A	11/23/04	7	14
FIELDQC	171104TB01	K183-01	11/17/04	SW8260B	11/28/04	N/A	N/A	11/28/04	11	14
FIELDQC	181104TB01	K200-01	11/18/04	SW8260B	12/01/04	N/A	N/A	12/01/04	13	14
FIELDQC	221104TB01	K215-01	11/22/04	SW8260B	12/02/04	N/A	N/A	12/02/04	10	14
FIELDQC	231104TB01	K228-01	11/23/04	SW8260B	11/29/04	N/A	N/A	11/29/04	6	14
FIELDQC	TEAD-11-04-SW-DF	K163-02R	11/16/04	SW8260B	11/26/04	N/A	N/A	11/26/04	10	14
FIELDQC	TEAD-11-10-04-TB01	K113-01	11/10/04	SW8260B	11/18/04	N/A	N/A	11/18/04	8	14
FIELDQC	TEAD-11-04-C21-KA-EB	K183-13	11/17/04	SW8270C-SIM	11/22/04	5	7	11/24/04	2	40
INF	TEAD-11-04-INF-WF	K113-12	11/10/04	SW8260B	11/18/04	N/A	N/A	11/18/04	8	14
N-114-88	TEAD-11-04-N11488-DF-324	K228-06R	11/23/04	SW8260B	12/06/04	N/A	N/A	12/06/04	13	14
N-115-88	TEAD-11-04-N11588-DF-285	K228-10R	11/23/04	SW8260B	12/06/04	N/A	N/A	12/06/04	13	14
N-116-88	TEAD-11-04-N11688-DF-285	K228-11R	11/23/04	SW8260B	12/06/04	N/A	N/A	12/06/04	13	14
N-117-88	TEAD-11-04-N11788-DF-237	K228-09R	11/23/04	SW8260B	12/06/04	N/A	N/A	12/06/04	13	14
N-120-88	TEAD-11-04-N12088-DF-321	K228-05	11/23/04	SW8260B	12/01/04	N/A	N/A	12/01/04	8	14
N-120-88	TEAD-11-04-N12088-DF-321	K228-05T	11/23/04	SW8260B	12/07/04	N/A	N/A	12/07/04	14	14
N-135-90	TEAD-11-04-N13590-DF-240	K228-07R	11/23/04	SW8260B	12/06/04	N/A	N/A	12/06/04	13	14
N-135-90	TEAD-11-04-S-N13590-01-DF-200	K228-08R	11/23/04	SW8260B	12/06/04	N/A	N/A	12/06/04	13	14
N-150-97	TEAD-11-04-N15097-DF-281	K228-04	11/23/04	SW8260B	12/01/04	N/A	N/A	12/01/04	8	14
N-150-97	TEAD-11-04-N15097-DF-281	K228-04T	11/23/04	SW8260B	12/07/04	N/A	N/A	12/07/04	14	14
T-06	TEAD-11-04-T06-DF-261	K215-07	11/22/04	SW8260B	12/02/04	N/A	N/A	12/02/04	10	14

N/A - Not applicable

TABLE B-6a
VOLATILE ORGANIC COMPOUNDS METHOD BLANK DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKELE ARMY DEPOT, UTAH
(Page 1 of 6)

Lab Sample Identification	VO94K39Q	VO94K41Q	VO94K47Q	VO94K50Q
Matrix	Water	Water	Water	Water
Extraction Code	SW5030B	SW5030B	SW5030B	SW5030B
Analysis Code	SW8260B	SW8260B	SW8260B	SW8260B
Analysis Date	11/18/2004	11/19/2004	11/21/2004	11/22/2004
Analyte (Units)				
Volatile Organic Compounds ($\mu\text{g/l}$)				
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0
Benzene	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0
Chloroethane	<1.0	<1.0	<1.0	<1.0
Chloroform	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	<1.0	<1.0	<1.0	<1.0
Methylene chloride	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene (PCE)	<1.0	<1.0	<1.0	<1.0
Toluene	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0
Trichloroethene (TCE)	<1.0	<1.0	<1.0	<1.0
Vinyl chloride	<2.0	<2.0	<2.0	<2.0
Xylenes, Total	<1.0	<1.0	<1.0	<1.0
Surrogate %)	<u>Limit</u>			
1,2-Dichloroethane-d4	70 - 130	92	87	88
1-Bromo-4-fluorobenzene	70 - 130	107	105	106
Toluene-D8	70 - 130	96	97	102
				100

TABLE B-6a
VOLATILE ORGANIC COMPOUNDS METHOD BLANK DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKELE ARMY DEPOT, UTAH
(Page 2 of 6)

Lab Sample Identification	VO94K53Q	VO94K56Q	VO94K55Q	VO94K60Q
Matrix	Water	Water	Water	Water
Extraction Code	SW5030B	SW5030B	SW5030B	SW5030B
Analysis Code	SW8260B	SW8260B	SW8260B	SW8260B
Analysis Date	11/23/2004	11/24/2004	11/24/2004	11/26/2004
Analyte (Units)				
Volatile Organic Compounds (µg/l)				
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0
Benzene	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0
Chloroethane	<1.0	<1.0	<1.0	<1.0
Chloroform	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	<1.0	<1.0	<1.0	<1.0
Methylene chloride	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene (PCE)	<1.0	<1.0	<1.0	<1.0
Toluene	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0
Trichloroethene (TCE)	<1.0	<1.0	<1.0	<1.0
Vinyl chloride	<2.0	<2.0	<2.0	<2.0
Xylenes, Total	<1.0	<1.0	<1.0	<1.0
Surrogate %)	<u>Limit</u>			
1,2-Dichloroethane-d4	70 - 130	90	88	86
1-Bromo-4-fluorobenzene	70 - 130	104	103	102
Toluene-D8	70 - 130	95	96	98

TABLE B-6a
VOLATILE ORGANIC COMPOUNDS METHOD BLANK DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKELE ARMY DEPOT, UTAH
(Page 3 of 6)

Lab Sample Identification	VO94K66Q	VO94K68Q	VO05K81Q	VO02K51Q
Matrix	Water	Water	Water	Water
Extraction Code	SW5030B	SW5030B	SW5030B	SW5030B
Analysis Code	SW8260B	SW8260B	SW8260B	SW8260B
Analysis Date	11/28/2004	11/29/2004	11/29/2004	11/29/2004
Analyte (Units)				
Volatile Organic Compounds ($\mu\text{g/l}$)				
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0
Benzene	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0
Chloroethane	<1.0	<1.0	<1.0	<1.0
Chloroform	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	<1.0	<1.0	<1.0	<1.0
Methylene chloride	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene (PCE)	<1.0	<1.0	<1.0	<1.0
Toluene	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0
Trichloroethene (TCE)	<1.0	<1.0	<1.0	<1.0
Vinyl chloride	<2.0	<2.0	<2.0	<2.0
Xylenes, Total	<1.0	<1.0	<1.0	<1.0
Surrogate %)	<u>Limit</u>			
1,2-Dichloroethane-d4	70 - 130	83	87	86
1-Bromo-4-fluorobenzene	70 - 130	106	111	89
Toluene-D8	70 - 130	102	103	90
				97

TABLE B-6a
VOLATILE ORGANIC COMPOUNDS METHOD BLANK DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKELE ARMY DEPOT, UTAH
(Page 4 of 6)

Lab Sample Identification	VO94K69Q	VO02K52Q	VO94L01Q	VO05K86Q
Matrix	Water	Water	Water	Water
Extraction Code	SW5030B	SW5030B	SW5030B	SW5030B
Analysis Code	SW8260B	SW8260B	SW8260B	SW8260B
Analysis Date	11/30/2004	11/30/2004	12/1/2004	12/1/2004
Analyte (Units)				
Volatile Organic Compounds (µg/l)				
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0
Benzene	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0
Chloroethane	<1.0	<1.0	<1.0	<1.0
Chloroform	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	<1.0	<1.0	<1.0	<1.0
Methylene chloride	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene (PCE)	<1.0	<1.0	<1.0	<1.0
Toluene	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0
Trichloroethene (TCE)	<1.0	<1.0	<1.0	<1.0
Vinyl chloride	<2.0	<2.0	<2.0	<2.0
Xylenes, Total	<1.0	<1.0	<1.0	<1.0
Surrogate %)	<u>Limit</u>			
1,2-Dichloroethane-d4	70 - 130	85	91	87
1-Bromo-4-fluorobenzene	70 - 130	110	96	112
Toluene-D8	70 - 130	103	97	99

TABLE B-6a
VOLATILE ORGANIC COMPOUNDS METHOD BLANK DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKELE ARMY DEPOT, UTAH
(Page 5 of 6)

Lab Sample Identification	VO05L01Q	VO02L01Q	VO03L04Q	VO05L03B
Matrix	Water	Water	Water	Water
Extraction Code	SW5030B	SW5030B	SW5030B	SW5030B
Analysis Code	SW8260B	SW8260B	SW8260B	SW8260B
Analysis Date	12/1/2004	12/1/2004	12/2/2004	12/2/2004
Analyte (Units)				
Volatile Organic Compounds ($\mu\text{g/l}$)				
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0
Benzene	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	<1.0	<1.0	<1.0	<1.0
Chloroethane	<1.0	<1.0	<1.0	<1.0
Chloroform	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	<1.0	<1.0	<1.0	<1.0
Methylene chloride	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene (PCE)	<1.0	<1.0	<1.0	<1.0
Toluene	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0
Trichloroethene (TCE)	<1.0	<1.0	<1.0	<1.0
Vinyl chloride	<2.0	<2.0	<2.0	<2.0
Xylenes, Total	<1.0	<1.0	<1.0	<1.0
Surrogate %)	<u>Limit</u>			
1,2-Dichloroethane-d4	70 - 130	95	103	109
1-Bromo-4-fluorobenzene	70 - 130	85	103	110
Toluene-D8	70 - 130	89	105	114
				89

TABLE B-6a
VOLATILE ORGANIC COMPOUNDS METHOD BLANK DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKELE ARMY DEPOT, UTAH
(Page 6 of 6)

Lab Sample Identification	VO05L13Q	VO94L11Q	VO94L13Q
Matrix	Water	Water	Water
Extraction Code	SW5030B	SW5030B	SW5030B
Analysis Code	SW8260B	SW8260B	SW8260B
Analysis Date	12/5/2004	12/6/2004	12/7/2004
Analyte (Units)			
Volatile Organic Compounds (µg/l)			
1,1,1-Trichloroethane	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0
1,1-Dichloroethene	<1.0	<1.0	<1.0
1,2-Dichloroethane	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0
Benzene	<1.0	<1.0	<1.0
Carbon tetrachloride	<1.0	<1.0	<1.0
Chloroethane	<1.0	<1.0	<1.0
Chloroform	<1.0	<1.0	<1.0
Ethylbenzene	<1.0	<1.0	<1.0
Methylene chloride	<5.0	<5.0	<5.0
Tetrachloroethene (PCE)	<1.0	<1.0	<1.0
Toluene	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0
Trichloroethene (TCE)	<1.0	<1.0	<1.0
Vinyl chloride	<2.0	<2.0	<2.0
Xylenes, Total	<1.0	<1.0	<1.0
Surrogate %)	<u>Limit</u>		
1,2-Dichloroethane-d4	70 - 130	97	104
1-Bromo-4-fluorobenzene	70 - 130	89	104
Toluene-D8	70 - 130	91	106

TABLE B-6b

**SEMI-VOLATILE ORGANIC COMPOUNDS METHOD BLANK DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKELE ARMY DEPOT, UTAH
(Page 1 of 1)**

Lab Sample Identification	SVK031WB	SVK035WB
Matrix	Water	Water
Extraction Code	SW3520C	SW3520C
Extraction Date	11/19/2004	11/22/2004
Analysis Code	SW8270C-SIM	SW8270C-SIM
Analysis Date	11/22/2004	11/24/2004
Analyte (Units)		
Semi-Volatile Organic Compounds ($\mu\text{g/l}$)		
1,4-Dioxane	<1.0	<1.0
Surrogate (%)	<u>Limit</u>	
Bromobenzene	60 - 120	<u>57</u>
		<u>50</u>

Bold Bolded and underlined result indicates quality control data outside acceptance criteria.

TABLE B-7
TRIP BLANK DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKELE ARMY DEPOT, UTAH
(Page 1 of 2)

Field Sample Identification Date Collected	TEAD-11-10-04-TB01 11/10/2004	151104DA01 11/15/2004	161104TB01 11/16/2004
Analyte/Methods (Units)			
Volatile Organic Compounds/ SW8260B (µg/l)			
1,1,1-Trichloroethane	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0
1,1-Dichloroethane	<1.0	<1.0	<1.0
1,1-Dichloroethene	<1.0	<1.0	<1.0
1,2-Dichloroethane	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0
Benzene	<1.0	<1.0	<1.0
Carbon tetrachloride	<1.0	<1.0	<1.0
Chloroethane	<1.0	<1.0	<1.0
Chloroform	<1.0	<1.0	<1.0
Ethylbenzene	<1.0	<1.0	<1.0
Methylene chloride	<5.0	<5.0	<5.0
Tetrachloroethene (PCE)	<1.0	<1.0	<1.0
Toluene	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0
Trichloroethene (TCE)	<1.0	<1.0	<1.0
Vinyl chloride	<2.0	<2.0	<2.0
Xylenes, Total	<1.0	<1.0	<1.0
Surrogate (%)		Limit	
1,2-Dichloroethane-d4	70 - 130	88	92
1-Bromo-4-fluorobenzene	70 - 130	108	111
Toluene-D8	70 - 130	101	95

UJ Estimated reporting limit, indicating a potential low bias.

TABLE B-7
TRIP BLANK DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKELE ARMY DEPOT, UTAH
(Page 2 of 2)

Field Sample Identification	171104TB01	181104TB01	221104TB01	231104TB01
Date Collected	11/17/2004	11/18/2004	11/22/2004	11/23/2004
Analyte/Methods (Units)				
Volatile Organic Compounds/ SW8260B (µg/l)				
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	<1
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1
1,1-Dichloroethane	<1.0	<1.0	<1.0	<1
1,1-Dichloroethene	<1.0	<1.0	<1.0	<1 UJ
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1
Benzene	<1.0	<1.0	<1.0	<1
Carbon tetrachloride	<1.0 UJ	<1.0	<1.0	<1
Chloroethane	<1.0	<1.0	<1.0	<1
Chloroform	<1.0	<1.0	<1.0	<1
Ethylbenzene	<1.0	<1.0	<1.0	<1
Methylene chloride	<5.0	<5.0	<5.0	<5
Tetrachloroethene (PCE)	<1.0	<1.0	<1.0	<1
Toluene	<1.0	<1.0	<1.0	<1
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1
Trichloroethene (TCE)	<1.0	<1.0	<1.0	<1
Vinyl chloride	<2.0	<2.0	<2.0	<2
Xylenes, Total	<1.0	<1.0	<1.0	<1
Surrogate (%)		Limit		
1,2-Dichloroethane-d4	70 - 130	83	95	94
1-Bromo-4-fluorobenzene	70 - 130	106	90	89
Toluene-D8	70 - 130	102	91	89
				110
				107
				118

UJ Estimated reporting limit, indicating a potential low bias.

TABLE B-8

**EQUIPMENT RINSEATE BLANK DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKELE ARMY DEPOT, UTAH
(Page 1 of 1)**

Field Sample Identification	TEAD-11-04-SW-DF	TEAD-11-04-C21-KA-EB	
Date Collected	11/16/2004	11/17/2004	
Matrix	Water	Water	
Analyte/Methods (Units)			
Volatile Organic Compounds/ SW8260B (µg/l)			
1,1,1-Trichloroethane	<1.0	NA	
1,1,2,2-Tetrachloroethane	<1.0	NA	
1,1-Dichloroethane	<1.0	NA	
1,1-Dichloroethene	<1.0	NA	
1,2-Dichloroethane	<1.0	NA	
1,2-Dichloropropane	<1.0	NA	
Benzene	<1.0	NA	
Carbon tetrachloride	<1.0	NA	
Chloroethane	<1.0	NA	
Chloroform	<1.0	NA	
Ethylbenzene	<1.0	NA	
Methylene chloride	<5.0	NA	
Tetrachloroethene (PCE)	<1.0	NA	
Toluene	<1.0	NA	
trans-1,2-Dichloroethene	<1.0	NA	
Trichloroethene (TCE)	<1.0	NA	
Vinyl chloride	<2.0	NA	
Xylenes, Total	<1.0	NA	
Surrogate (%)			
1,2-Dichloroethane-d4	<u>Limit</u> 70 - 130	88	NA
1-Bromo-4-fluorobenzene	70 - 130	105	NA
Toluene-D8	70 - 130	104	NA
Semi-Volatile Organic Compounds/ SW8270C-SIM (µg/l)			
1,4-Dioxane		NA	<0.94
Surrogate (%)			
Bromobenzene	<u>Limit</u> 60 - 120	NA	66

NA Not analyzed.

TABLE B-9a
VOLATILE ORGANIC COMPOUNDS FIELD DUPLICATE DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKELE ARMY DEPOT, UTAH
(Page 1 of 6)

Analyte/Methods (Units)	Location Identification	B-06	B-06 Dup	B-14A	B-14A Dup
	Date Collected	11/22/2004	11/22/2004	11/18/2004	11/18/2004
	Matrix	Groundwater	Groundwater	Groundwater	Groundwater
Volatile Organic Compounds/ SW8260B (µg/l)				RPD	RPD
1,1,1-Trichloroethane		<1.0	<1.0	NC	<1.0
1,1,2,2-Tetrachloroethane		<1.0	<1.0	NC	<1.0
1,1-Dichloroethane		<1.0	<1.0	NC	<1.0
1,1-Dichloroethene		<1.0	<1.0	NC	<1.0
1,2-Dichloroethane		<1.0	<1.0	NC	<1.0
1,2-Dichloropropane		<1.0	<1.0	NC	<1.0
Benzene		<1.0	<1.0	NC	<1.0
Carbon tetrachloride		<1.0	<1.0	NC	<1.0
Chloroethane		<1.0	<1.0	NC	<1.0
Chloroform		<1.0	<1.0	NC	<1.0
Ethylbenzene		<1.0	<1.0	NC	<1.0
Methylene chloride		<5.0	<5.0	NC	<5.0
Tetrachloroethene (PCE)		<1.0	<1.0	NC	<1.0
Toluene		<1.0	<1.0	NC	<1.0
trans-1,2-Dichloroethene		<1.0	<1.0	NC	<1.0
Trichloroethene (TCE)		6.2	7.3	16.3	<1.0
Vinyl chloride		<2.0	<2.0	NC	<2.0
Xylenes, Total		<1.0	<1.0	NC	<1.0
Surrogate (%)¹		Limit			
1,2-Dichloroethane-d4	70 - 130	96	94	NC	92
1-Bromo-4-fluorobenzene	70 - 130	90	93	NC	90
Toluene-D8	70 - 130	89	93	NC	90

Bold Bolded result indicates positively identified compound.

NC Not calculated.

D Sample dilution required for analysis; reported values reflect the dilution.

T Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.

UJ Estimated reporting limit, indicating a potential low bias.

RPD Relative percent difference

¹ Samples with two sets of surrogate results are for the original and the diluted analysis.

TABLE B-9a
VOLATILE ORGANIC COMPOUNDS FIELD DUPLICATE DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKELE ARMY DEPOT, UTAH
(Page 2 of 6)

Analyte/Methods (Units)	Location Identification	B-18	B-18 Dup	B-59	B-59 Dup
	Date Collected	11/18/2004	11/18/2004	11/18/2004	11/18/2004
	Matrix	Groundwater	Groundwater	Groundwater	Groundwater
Volatile Organic Compounds/ SW8260B (µg/l)					
1,1,1-Trichloroethane		<1.0	<1.0	NC	<1.0
1,1,2,2-Tetrachloroethane		<1.0	<1.0	NC	<1.0
1,1-Dichloroethane		<1.0	<1.0	NC	<1.0
1,1-Dichloroethene		<1.0	<1.0	NC	<1.0
1,2-Dichloroethane		<1.0	<1.0	NC	<1.0
1,2-Dichloropropane		<1.0	<1.0	NC	<1.0
Benzene		<1.0	<1.0	NC	<1.0
Carbon tetrachloride		<1.0	<1.0	NC	<1.0
Chloroethane		<1.0	<1.0	NC	<1.0
Chloroform		<1.0	<1.0	NC	<1.0
Ethylbenzene		<1.0	<1.0	NC	<1.0
Methylene chloride		<5.0	<5.0	NC	<5.0
Tetrachloroethene (PCE)		<1.0	<1.0	NC	<1.0
Toluene		<1.0	<1.0	NC	<1.0
trans-1,2-Dichloroethene		<1.0	<1.0	NC	<1.0
Trichloroethene (TCE)		2.1	2.2	4.7	0.63 T
Vinyl chloride		<2.0	<2.0	NC	<2.0
Xylenes, Total		<1.0	<1.0	NC	<1.0
Surrogate (%)¹					
1,2-Dichloroethane-d4	<u>Limit</u>	70 - 130	88	91	NC
1-Bromo-4-fluorobenzene		70 - 130	91	92	NC
Toluene-D8		70 - 130	88	91	NC

Bold Bolded result indicates positively identified compound.

NC Not calculated.

D Sample dilution required for analysis; reported values reflect the dilution.

T Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.

UJ Estimated reporting limit, indicating a potential low bias.

RPD Relative percent difference

¹ Samples with two sets of surrogate results are for the original and the diluted analysis.

TABLE B-9a
VOLATILE ORGANIC COMPOUNDS FIELD DUPLICATE DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKELE ARMY DEPOT, UTAH
(Page 3 of 6)

Analyte/Methods (Units)	Location Identification	C-08	C-08 Dup	C-32	C-32 Dup
	Date Collected	11/18/2004	11/18/2004	11/22/2004	11/22/2004
	Matrix	Groundwater	Groundwater	Groundwater	Groundwater
Volatile Organic Compounds/ SW8260B (µg/l)				RPD	RPD
1,1,1-Trichloroethane	<1.0	<1.0	NC	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	NC	<1.0	<1.0
1,1-Dichloroethane	<1.0	<1.0	NC	<1.0	<1.0
1,1-Dichloroethene	<1.0	<1.0	NC	<1.0	<1.0
1,2-Dichloroethane	<1.0	<1.0	NC	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	NC	<1.0	<1.0
Benzene	<1.0	<1.0	NC	<1.0	<1.0
Carbon tetrachloride	0.74 T	0.73 T	NC	4.1	4.2
Chloroethane	<1.0	<1.0	NC	<1.0	<1.0
Chloroform	<1.0	<1.0	NC	<1.0	<1.0
Ethylbenzene	<1.0	<1.0	NC	<1.0	<1.0
Methylene chloride	<5.0	<5.0	NC	<5.0	<5.0
Tetrachloroethene (PCE)	<1.0	<1.0	NC	<1.0	<1.0
Toluene	<1.0	<1.0	NC	<1.0	<1.0
trans-1,2-Dichloroethene	<1.0	<1.0	NC	<1.0	<1.0
Trichloroethene (TCE)	4.6	4.2	9.1	<1.0	<1.0
Vinyl chloride	<2.0	<2.0	NC	<2.0	<2.0
Xylenes, Total	<1.0	<1.0	NC	<1.0	<1.0
Surrogate (%)¹		<u>Limit</u>			
1,2-Dichloroethane-d4	70 - 130	96	97	NC	99
1-Bromo-4-fluorobenzene	70 - 130	90	91	NC	87
Toluene-D8	70 - 130	89	90	NC	89

Bold Bolded result indicates positively identified compound.

NC Not calculated.

D Sample dilution required for analysis; reported values reflect the dilution.

T Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.

UJ Estimated reporting limit, indicating a potential low bias.

RPD Relative percent difference

¹ Samples with two sets of surrogate results are for the original and the diluted analysis.

TABLE B-9a
VOLATILE ORGANIC COMPOUNDS FIELD DUPLICATE DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKELE ARMY DEPOT, UTAH
(Page 4 of 6)

Analyte/Methods (Units)	Location Identification	C-39	C-39 Dup	C-40	C-40 Dup
	Date Collected	11/17/2004	11/17/2004	11/23/2004	11/23/2004
	Matrix	Groundwater	Groundwater	Groundwater	Groundwater
Volatile Organic Compounds/					
SW8260B (µg/l)					
1,1,1-Trichloroethane	<1.0 UJ	<1.0	NC	0.29 T	0.27 T
1,1,2,2-Tetrachloroethane	<1.0	<1.0	NC	<1	<1
1,1-Dichloroethane	<1.0	<1.0	NC	<1	<1
1,1-Dichloroethene	<1.0	<1.0	NC	0.3 T	0.29 T
1,2-Dichloroethane	<1.0 UJ	<1.0	NC	<1	<1
1,2-Dichloropropane	<1.0	<1.0	NC	<1	<1
Benzene	<1.0	<1.0	NC	<1	<1
Carbon tetrachloride	<1.0 UJ	<1.0 UJ	NC	<1	<1
Chloroethane	<1.0	<1.0	NC	<1	<1
Chloroform	<1.0	<1.0	NC	0.32 T	0.32 T
Ethylbenzene	<1.0	<1.0	NC	<1	<1
Methylene chloride	<5.0	<5.0	NC	<5	<5
Tetrachloroethene (PCE)	<1.0	<1.0	NC	3.5	3.5
Toluene	0.33 T	0.27 T	NC	<1	<1
trans-1,2-Dichloroethene	<1.0	<1.0	NC	5.6	5.4
Trichloroethene (TCE)	<1.0	<1.0	NC	290 D	300 D
Vinyl chloride	<2.0	<2.0	NC	<2	<2
Xylenes, Total	<1.0	<1.0	NC	<1	<1
Surrogate (%)¹					
		<u>Limit</u>			
1,2-Dichloroethane-d4	70 - 130	85	89	109;106	108;107
1-Bromo-4-fluorobenzene	70 - 130	109	108	109;106	109;109
Toluene-D8	70 - 130	104	102	115;116	116;119

Bold Bolded result indicates positively identified compound.

NC Not calculated.

D Sample dilution required for analysis; reported values reflect the dilution.

T Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.

UJ Estimated reporting limit, indicating a potential low bias.

RPD Relative percent difference

¹ Samples with two sets of surrogate results are for the original and the diluted analysis.

TABLE B-9a
VOLATILE ORGANIC COMPOUNDS FIELD DUPLICATE DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKELE ARMY DEPOT, UTAH
(Page 5 of 6)

Analyte/Methods (Units)	Location Identification	E-12	E-12 Dup	E-14	E-14 Dup
	Date Collected	11/10/2004	11/10/2004	11/10/2004	11/10/2004
	Matrix	Groundwater	Groundwater	Groundwater	Groundwater
Volatile Organic Compounds/					
SW8260B (µg/l)					
1,1,1-Trichloroethane		<1.0	<1.0	NC	<1.0
1,1,2,2-Tetrachloroethane		<1.0	<1.0	NC	<1.0
1,1-Dichloroethane		<1.0	<1.0	NC	<1.0
1,1-Dichloroethene		<1.0	<1.0	NC	<1.0
1,2-Dichloroethane		<1.0	<1.0	NC	<1.0
1,2-Dichloropropane		<1.0	<1.0	NC	<1.0
Benzene		<1.0	<1.0	NC	<1.0
Carbon tetrachloride		<1.0	<1.0	NC	<1.0
Chloroethane		<1.0	<1.0	NC	<1.0
Chloroform		<1.0	<1.0	NC	<1.0
Ethylbenzene		<1.0	<1.0	NC	<1.0
Methylene chloride		<5.0	<5.0	NC	<5.0
Tetrachloroethene (PCE)		<1.0	<1.0	NC	<1.0
Toluene		<1.0	<1.0	NC	<1.0
trans-1,2-Dichloroethene		<1.0	<1.0	NC	<1.0
Trichloroethene (TCE)		<1.0	<1.0	NC	19
Vinyl chloride		<2.0	<2.0	NC	<2.0
Xylenes, Total		<1.0	<1.0	NC	<1.0
Surrogate (%)¹					
	<u>Limit</u>				
1,2-Dichloroethane-d4	70 - 130	93	93	95	90
1-Bromo-4-fluorobenzene	70 - 130	112	106	109	106
Toluene-D8	70 - 130	96	97	96	105

Bold Bolded result indicates positively identified compound.

NC Not calculated.

D Sample dilution required for analysis; reported values reflect the dilution.

T Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.

UJ Estimated reporting limit, indicating a potential low bias.

RPD Relative percent difference

¹ Samples with two sets of surrogate results are for the original and the diluted analysis.

TABLE B-9a
VOLATILE ORGANIC COMPOUNDS FIELD DUPLICATE DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKELE ARMY DEPOT, UTAH
(Page 6 of 6)

Analyte/Methods (Units)	Location Identification	N-135-90	N-135-90 Dup	RPD
	Date Collected	11/23/2004	11/23/2004	
	Matrix	Groundwater	Groundwater	
Volatile Organic Compounds/ SW8260B (µg/l)				
1,1,1-Trichloroethane	<1	<1	NC	
1,1,2,2-Tetrachloroethane	<1	<1	NC	
1,1-Dichloroethane	<1	<1	NC	
1,1-Dichloroethene	<1	<1	NC	
1,2-Dichloroethane	<1	<1	NC	
1,2-Dichloropropane	<1	<1	NC	
Benzene	<1	<1	NC	
Carbon tetrachloride	<1	<1	NC	
Chloroethane	<1	<1	NC	
Chloroform	<1	<1	NC	
Ethylbenzene	<1	<1	NC	
Methylene chloride	<5	<5	NC	
Tetrachloroethene (PCE)	<1	<1	NC	
Toluene	<1	<1	NC	
trans-1,2-Dichloroethene	<1	<1	NC	
Trichloroethene (TCE)	5.5	5.6	1.8	
Vinyl chloride	<2	<2	NC	
Xylenes, Total	<1	<1	NC	
Surrogate (%)¹	Limit			
1,2-Dichloroethane-d4	70 - 130	111	105	NC
1-Bromo-4-fluorobenzene	70 - 130	108	107	NC
Toluene-D8	70 - 130	115	117	NC

Bold Bolded result indicates positively identified compound.

NC Not calculated.

D Sample dilution required for analysis; reported values reflect the dilution.

T Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.

UJ Estimated reporting limit, indicating a potential low bias.

RPD Relative percent difference

¹ Samples with two sets of surrogate results are for the original and the diluted analysis.

TABLE B-9b

**SEMI-VOLATILE ORGANIC COMPOUNDS FIELD DUPLICATE DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKELE ARMY DEPOT, UTAH
(Page 1 of 1)**

Location Identification	B-34	B-34 Dup	
Date Collected	11/17/2004	11/17/2004	
Matrix	Groundwater	Groundwater	
Analyte/Methods (Units)			RPD
Semi-Volatile Organic Compounds/ SW8270C-SIM ($\mu\text{g/l}$)			
1,4-Dioxane	<1.0	<1.0	NC
Surrogate (%)	Limit		
Bromobenzene	60 - 120	61	67
NC	Not calculated.		
RPD	Relative percent difference.		

NC Not calculated.

RPD Relative percent difference.

TABLE B-10a

VOLATILE ORGANIC COMPOUNDS MATRIX SPIKE/MATRIX SPIKE DUPLICATE DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKELE ARMY DEPOT, UTAH
(Page 1 of 5)

Analyte/Methods (Units)	Location Identification		B-32	B-32	B-32
	Sample Type	Parent	MS	MSD	
	Date Collected	11/18/2004	11/18/2004	11/18/2004	
	Matrix	Groundwater	Groundwater	Groundwater	
Volatile Organic Compounds/ SW8260B (µg/l)	Recovery	RPD			
	<u>Limit</u>	<u>Limit</u>			
1,1-Dichloroethene	70 - 130	30	<1.0	96	95
Benzene	70 - 130	30	<1.0	93	93
Chlorobenzene	70 - 130	30	<1.0	93	90
Toluene	70 - 130	30	<1.0	92	92
Trichloroethene (TCE)	70 - 130	30	2.0	91	91
Surrogate (%)¹					
1,2-Dichloroethane-d4	70 - 130	N/A	100	97	96
1-Bromo-4-fluorobenzene	70 - 130	N/A	89	87	88
Toluene-D8	70 - 130	N/A	90	89	90

Bold Bolded result indicates positively identified compound.

Bold Bolded and underlined result indicates quality control data outside acceptance criteria.

N/A Not applicable.

NC Not calculated.

D Sample dilution required for analysis; reported values reflect the dilution.

J- Datum is estimated, potentially biased high.

T Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.

MS Matrix spike

MSD Matrix spike duplicate

RPD Relative percent difference

¹ Samples with two set of surrogate result are for the original and the diluted analysis.

TABLE B-10a

VOLATILE ORGANIC COMPOUNDS MATRIX SPIKE/MATRIX SPIKE DUPLICATE DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKELE ARMY DEPOT, UTAH
(Page 2 of 5)

Analyte/Methods (Units)	Location Identification		B-59	B-59	B-59
	Sample Type	Parent	MS	MSD	
	Date Collected	11/18/2004	11/18/2004	11/18/2004	
	Matrix	Groundwater	Groundwater	Groundwater	
Volatile Organic Compounds/ SW8260B (µg/l)	Recovery	RPD			
	Limit	Limit			
1,1-Dichloroethene	70 - 130	30	<1.0	91	93
Benzene	70 - 130	30	<1.0	87	88
Chlorobenzene	70 - 130	30	<1.0	87	89
Toluene	70 - 130	30	<1.0	85	86
Trichloroethene (TCE)	70 - 130	30	0.63 T	83	83
Surrogate (%)¹					
1,2-Dichloroethane-d4	70 - 130	N/A	94	98	101
1-Bromo-4-fluorobenzene	70 - 130	N/A	91	86	85
Toluene-D8	70 - 130	N/A	89	89	89

Bold Bolded result indicates positively identified compound.

Bold Bolded and underlined result indicates quality control data outside acceptance criteria.

N/A Not applicable.

NC Not calculated.

D Sample dilution required for analysis; reported values reflect the dilution.

J- Datum is estimated, potentially biased high.

T Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.

MS Matrix spike

MSD Matrix spike duplicate

RPD Relative percent difference

¹ Samples with two set of surrogate result are for the original and the diluted analysis.

TABLE B-10a

VOLATILE ORGANIC COMPOUNDS MATRIX SPIKE/MATRIX SPIKE DUPLICATE DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKELE ARMY DEPOT, UTAH
(Page 3 of 5)

Analyte/Methods (Units)	Location Identification		C-13	C-13	C-13
	Sample Type	Parent	MS	MSD	
	Date Collected	11/17/2004	11/17/2004	11/17/2004	
	Matrix	Groundwater	Groundwater	Groundwater	
Volatile Organic Compounds/ SW8260B (µg/l)	Recovery	RPD			
	Limit	Limit			
1,1-Dichloroethene	70 - 130	30	<1.0	91	94
Benzene	70 - 130	30	<1.0	102	108
Chlorobenzene	70 - 130	30	<1.0	101	106
Toluene	70 - 130	30	<1.0	106	113
Trichloroethene (TCE)	70 - 130	30	120 D	91	<u>134</u>
Surrogate (%)¹					
1,2-Dichloroethane-d4	70 - 130	N/A	86;83	84	85
1-Bromo-4-fluorobenzene	70 - 130	N/A	108;107	104	106
Toluene-D8	70 - 130	N/A	104;103	103	99

Bold Bolded result indicates positively identified compound.

Bold Bolded and underlined result indicates quality control data outside acceptance criteria.

N/A Not applicable.

NC Not calculated.

D Sample dilution required for analysis; reported values reflect the dilution.

J- Datum is estimated, potentially biased high.

T Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.

MS Matrix spike

MSD Matrix spike duplicate

RPD Relative percent difference

¹ Samples with two set of surrogate result are for the original and the diluted analysis.

TABLE B-10a

VOLATILE ORGANIC COMPOUNDS MATRIX SPIKE/MATRIX SPIKE DUPLICATE DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKELE ARMY DEPOT, UTAH
(Page 4 of 5)

Analyte/Methods (Units)	Location Identification		INF	INF	INF
	Sample Type	Parent	MS	MSD	
	Date Collected	11/10/2004	11/10/2004	11/10/2004	
	Matrix	Groundwater	Groundwater	Groundwater	
Volatile Organic Compounds/ SW8260B (µg/l)	Recovery	RPD			
	Limit	Limit			
1,1-Dichloroethene	70 - 130	30	<1.0	101	104
Benzene	70 - 130	30	<1.0	115	107
Chlorobenzene	70 - 130	30	<1.0	108	107
Toluene	70 - 130	30	<1.0	119	115
Trichloroethene (TCE)	70 - 130	30	6.0	114	104
Surrogate (%)¹					
1,2-Dichloroethane-d4	70 - 130	N/A	93	93	89
1-Bromo-4-fluorobenzene	70 - 130	N/A	107	104	105
Toluene-D8	70 - 130	N/A	96	98	94

Bold Bolded result indicates positively identified compound.

Bold Bolded and underlined result indicates quality control data outside acceptance criteria.

N/A Not applicable.

NC Not calculated.

D Sample dilution required for analysis; reported values reflect the dilution.

J- Datum is estimated, potentially biased high.

T Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.

MS Matrix spike

MSD Matrix spike duplicate

RPD Relative percent difference

¹ Samples with two set of surrogate result are for the original and the diluted analysis.

TABLE B-10a

VOLATILE ORGANIC COMPOUNDS MATRIX SPIKE/MATRIX SPIKE DUPLICATE DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOKELE ARMY DEPOT, UTAH
(Page 5 of 5)

Analyte/Methods (Units)	Location Identification		T-06	T-06	T-06
	Sample Type	Parent	MS	MSD	
	Date Collected	11/22/2004	11/22/2004	11/22/2004	
	Matrix	Groundwater	Groundwater	Groundwater	
Volatile Organic Compounds/ SW8260B (µg/l)	Recovery	RPD			
	Limit	Limit			
1,1-Dichloroethene	70 - 130	30	<1.0	99	100
Benzene	70 - 130	30	<1.0	108	109
Chlorobenzene	70 - 130	30	<1.0	103	103
Toluene	70 - 130	30	<1.0	113	112
Trichloroethene (TCE)	70 - 130	30	22 J-	55	85
Surrogate (%)¹					
1,2-Dichloroethane-d4	70 - 130	N/A	118	117	110
1-Bromo-4-fluorobenzene	70 - 130	N/A	110	114	116
Toluene-D8	70 - 130	N/A	114	106	106

Bold Bolded result indicates positively identified compound.

Bold Bolded and underlined result indicates quality control data outside acceptance criteria.

N/A Not applicable.

NC Not calculated.

D Sample dilution required for analysis; reported values reflect the dilution.

J- Datum is estimated, potentially biased high.

T Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.

MS Matrix spike

MSD Matrix spike duplicate

RPD Relative percent difference

¹ Samples with two set of surrogate result are for the original and the diluted analysis.

TABLE B-10b

SEMI-VOLATILE ORGANIC COMPOUNDS
MATRIX SPIKE/MATRIX SPIKE DUPLICATE DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOEL ARMY DEPOT, UTAH
(Page 1 of 1)

Analyte/Methods (Units)	Location Identification	C-37	C-37	C-37
	Sample Type	Parent	MS	MSD
	Date Collected	11/16/2004	11/16/2004	11/16/2004
	Matrix	Groundwater	Groundwater	Groundwater
		% Recovery	% Recovery	RPD
Semi-Volatile Organic Compounds/ SW8270C-SIM (µg/l)		Recovery	RPD	
1,4-Dioxane (p-Dioxane)	60 - 140	30	0.86 TJ-	71
Surrogate (%)				
Bromobenzene	60 - 120	N/A	55	58
				67
				NC

Bold Bolded result indicates positively identified compound.

Bold Bolded and underlined result indicates quality control data outside acceptance criteria.

N/A Not applicable.

NC Not calculated.

J- Datum is estimated, potentially biased low.

T Analyte was positively identified but the reported concentration is estimated; reported concentration is less than the reporting limit, but greater than the method detection limit.

MS Matrix spike

MSD Matrix spike duplicate

RPD Relative percent difference

TABLE B-11a

**VOLATILE ORGANIC COMPOUNDS LABORATORY CONTROL/LABORATORY CONTROL DUPLICATE DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOEL ARMY DEPOT, UTAH
(Page 1 of 6)**

Lab Sample Identification	VO94K39L	VO94K39C	VO94K41L	VO94K41C	VO94K47L	VO94K47C	VO94K50L	VO94K50C	
Sample Type	LCS	LCD	LCS	LCD	LCS	LCD	LCS	LCD	
Matrix	Water								
Extraction Code	SW5030B								
Extraction Date	11/18/2004	11/18/2004	11/19/2004	11/19/2004	11/21/2004	11/21/2004	11/22/2004	11/22/2004	
Analysis Code	SW8260B								
Analysis Date	11/18/2004	11/18/2004	11/19/2004	11/19/2004	11/21/2004	11/21/2004	11/22/2004	11/22/2004	
Analyte (Units)									
Volatile Organic Compounds (%)	Recovery								
	<u>Limit</u>								
1,1-Dichloroethene	80 - 120	99	104	104	101	101	102	97	103
Benzene	80 - 120	107	108	111	109	106	109	110	110
Chlorobenzene	80 - 120	108	111	112	107	106	108	106	111
Toluene	80 - 120	111	115	118	114	110	113	115	116
Trichloroethene (TCE)	80 - 120	108	109	113	110	117	123	111	111
Surrogate (%)									
1,2-Dichloroethane-d4	70 - 130	87	85	86	85	86	85	86	85
1-Bromo-4-fluorobenzene	70 - 130	106	101	105	103	101	104	105	102
Toluene-D8	70 - 130	99	97	93	94	96	94	96	93

Bold Bolded and underlined result indicates quality control data outside acceptance criteria.

LCS Laboratory control sample

LCD Laboratory control sample duplicate

TABLE B-11a

**VOLATILE ORGANIC COMPOUNDS LABORATORY CONTROL/LABORATORY CONTROL DUPLICATE DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOELA ARMY DEPOT, UTAH
(Page 2 of 6)**

Lab Sample Identification	VO94K53L	VO94K53C	VO94K55L	VO94K56L	VO94K55C	VO94K56C	VO94K60L	VO94K60C
Sample Type	LCS	LCD	LCS	LCS	LCD	LCD	LCS	LCD
Matrix	Water	Water	Water	Water	Water	Water	Water	Water
Extraction Code	SW5030B	SW5030B	SW5030B	SW5030B	SW5030B	SW5030B	SW5030B	SW5030B
Extraction Date	11/23/2004	11/23/2004	11/24/2004	11/24/2004	11/24/2004	11/24/2004	11/26/2004	11/26/2004
Analysis Code	SW8260B	SW8260B	SW8260B	SW8260B	SW8260B	SW8260B	SW8260B	SW8260B
Analysis Date	11/23/2004	11/23/2004	11/24/2004	11/24/2004	11/24/2004	11/24/2004	11/26/2004	11/26/2004
Analyte (Units)								
Volatile Organic Compounds (%)	Recovery							
	<u>Limit</u>							
1,1-Dichloroethene	80 - 120	105	105	93	101	99	102	98
Benzene	80 - 120	110	113	107	107	111	106	110
Chlorobenzene	80 - 120	113	109	105	105	108	107	108
Toluene	80 - 120	117	117	111	109	114	111	114
Trichloroethene (TCE)	80 - 120	112	115	115	106	118	107	120
Surrogate (%)								
1,2-Dichloroethane-d4	70 - 130	85	85	89	83	88	84	88
1-Bromo-4-fluorobenzene	70 - 130	105	103	103	99	101	102	104
Toluene-D8	70 - 130	92	93	93	96	94	90	91

Bold Bolded and underlined result indicates quality control data outside acceptance criteria.

LCS Laboratory control sample

LCD Laboratory control sample duplicate

TABLE B-11a

**VOLATILE ORGANIC COMPOUNDS LABORATORY CONTROL/LABORATORY CONTROL DUPLICATE DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOELA ARMY DEPOT, UTAH
(Page 3 of 6)**

Lab Sample Identification	VO94K66L	VO94K66C	VO02K51L	VO05K81L	VO94K68L	VO02K51C	VO05K81C	VO94K68C
Sample Type	LCS	LCD	LCS	LCS	LCS	LCD	LCD	LCD
Matrix	Water	Water	Water	Water	Water	Water	Water	Water
Extraction Code	SW5030B	SW5030B	SW5030B	SW5030B	SW5030B	SW5030B	SW5030B	SW5030B
Extraction Date	11/28/2004	11/28/2004	11/29/2004	11/29/2004	11/29/2004	11/29/2004	11/29/2004	11/29/2004
Analysis Code	SW8260B	SW8260B	SW8260B	SW8260B	SW8260B	SW8260B	SW8260B	SW8260B
Analysis Date	11/28/2004	11/28/2004	11/29/2004	11/29/2004	11/29/2004	11/29/2004	11/29/2004	11/29/2004
Analyte (Units)								
Volatile Organic Compounds (%)	Recovery							
	<u>Limit</u>							
1,1-Dichloroethene	80 - 120	88	84	77	89	86	79	92
Benzene	80 - 120	96	104	89	90	99	86	92
Chlorobenzene	80 - 120	91	92	87	89	92	87	92
Toluene	80 - 120	97	102	95	91	99	93	93
Trichloroethene (TCE)	80 - 120	91	98	82	89	97	81	92
Surrogate (%)								
1,2-Dichloroethane-d4	70 - 130	84	80	85	87	84	83	82
1-Bromo-4-fluorobenzene	70 - 130	106	104	99	86	107	96	88
Toluene-D8	70 - 130	99	105	96	89	101	94	90

Bold Bolded and underlined result indicates quality control data outside acceptance criteria.

LCS Laboratory control sample

LCD Laboratory control sample duplicate

TABLE B-11a

**VOLATILE ORGANIC COMPOUNDS LABORATORY CONTROL/LABORATORY CONTROL DUPLICATE DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOELA ARMY DEPOT, UTAH
(Page 4 of 6)**

Lab Sample Identification	VO02K52L	VO94K69L	VO02K52C	VO94K69C	VO02L01L	VO05K86L	VO05L01L	VO94L01L
Sample Type	LCS	LCS	LCD	LCD	LCS	LCS	LCS	LCS
Matrix	Water	Water	Water	Water	Water	Water	Water	Water
Extraction Code	SW5030B	SW5030B	SW5030B	SW5030B	SW5030B	SW5030B	SW5030B	SW5030B
Extraction Date	11/30/2004	11/30/2004	11/30/2004	11/30/2004	12/1/2004	12/1/2004	12/1/2004	12/1/2004
Analysis Code	SW8260B	SW8260B	SW8260B	SW8260B	SW8260B	SW8260B	SW8260B	SW8260B
Analysis Date	11/30/2004	11/30/2004	11/30/2004	11/30/2004	12/1/2004	12/1/2004	12/1/2004	12/1/2004
Analyte (Units)								
Volatile Organic Compounds (%)	Recovery							
	<u>Limit</u>							
1,1-Dichloroethene	80 - 120	91	100	91	101	<u>73</u>	93	94
Benzene	80 - 120	105	108	107	109	93	90	91
Chlorobenzene	80 - 120	103	103	105	103	82	90	90
Toluene	80 - 120	117	112	117	111	94	90	90
Trichloroethene (TCE)	80 - 120	99	103	98	102	88	87	86
Surrogate (%)								
1,2-Dichloroethane-d4	70 - 130	100	82	100	79	88	91	93
1-Bromo-4-fluorobenzene	70 - 130	107	115	111	119	94	87	86
Toluene-D8	70 - 130	114	102	113	102	100	89	88

Bold Bolded and underlined result indicates quality control data outside acceptance criteria.

LCS Laboratory control sample

LCD Laboratory control sample duplicate

TABLE B-11a

**VOLATILE ORGANIC COMPOUNDS LABORATORY CONTROL/LABORATORY CONTROL DUPLICATE DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOELA ARMY DEPOT, UTAH
(Page 5 of 6)**

Lab Sample Identification	VO02L01C	VO05K86C	VO05L01C	VO05L01C	VO94L01C	VO03L04L	VO05L03L	VO03L04C
Sample Type	LCD	LCD	LCD	LCD	LCD	LCS	LCS	LCD
Matrix	Water	Water	Water	Water	Water	Water	Water	Water
Extraction Code	SW5030B	SW5030B	SW5030B	SW5030B	SW5030B	SW5030B	SW5030B	SW5030B
Extraction Date	12/1/2004	12/1/2004	12/1/2004	12/1/2004	12/1/2004	12/2/2004	12/2/2004	12/2/2004
Analysis Code	SW8260B	SW8260B	SW8260B	SW8260B	SW8260B	SW8260B	SW8260B	SW8260B
Analysis Date	12/1/2004	12/1/2004	12/1/2004	12/1/2004	12/1/2004	12/2/2004	12/2/2004	12/2/2004
Analyte (Units)								
Volatile Organic Compounds (%)	Recovery							
		<u>Limit</u>						
1,1-Dichloroethene	80 - 120	74	96	92	92	85	90	96
Benzene	80 - 120	81	94	90	90	104	98	94
Chlorobenzene	80 - 120	80	92	90	90	96	97	93
Toluene	80 - 120	89	93	89	89	107	105	92
Trichloroethene (TCE)	80 - 120	79	93	86	86	99	102	91
Surrogate (%)								
1,2-Dichloroethane-d4	70 - 130	91	90	92	92	83	106	96
1-Bromo-4-fluorobenzene	70 - 130	100	87	88	88	111	111	84
Toluene-D8	70 - 130	93	89	90	90	104	106	88
102	102	102	102	102	102	102	102	102

Bold Bolded and underlined result indicates quality control data outside acceptance criteria.

LCS Laboratory control sample

LCD Laboratory control sample duplicate

TABLE B-11a

**VOLATILE ORGANIC COMPOUNDS LABORATORY CONTROL/LABORATORY CONTROL DUPLICATE DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOELA ARMY DEPOT, UTAH
(Page 6 of 6)**

Lab Sample Identification	VO05L03C	VO05L13L	VO05L13C	VO94L11L	VO94L11C	VO94L13L	VO94L13C	
Sample Type	LCD	LCS	LCD	LCS	LCD	LCS	LCD	
Matrix	Water							
Extraction Code	SW5030B							
Extraction Date	12/2/2004	12/5/2004	12/5/2004	12/6/2004	12/6/2004	12/7/2004	12/7/2004	
Analysis Code	SW8260B							
Analysis Date	12/2/2004	12/5/2004	12/5/2004	12/6/2004	12/6/2004	12/7/2004	12/7/2004	
Analyte (Units)								
Volatile Organic Compounds (%)	Recovery							
	<u>Limit</u>							
1,1-Dichloroethene	80 - 120	95	107	109	98	106	89	97
Benzene	80 - 120	95	98	102	94	105	88	92
Chlorobenzene	80 - 120	94	98	101	95	108	90	95
Toluene	80 - 120	94	98	102	96	109	92	97
Trichloroethene (TCE)	80 - 120	93	98	103	95	105	91	97
Surrogate (%)								
1,2-Dichloroethane-d4	70 - 130	91	116	110	102	104	107	101
1-Bromo-4-fluorobenzene	70 - 130	91	104	103	105	105	107	106
Toluene-D8	70 - 130	91	111	105	115	111	111	115

Bold Bolded and underlined result indicates quality control data outside acceptance criteria.

LCS Laboratory control sample

LCD Laboratory control sample duplicate

TABLE B-11b

**SEMI-VOLATILE ORGANIC COMPOUNDS LABORATORY CONTROL/LABORATORY CONTROL DUPLICATE DATA SUMMARY
NOVEMBER 2004
SWMU 2 - TOOELA ARMY DEPOT, UTAH
(Page 1 of 1)**

Lab Sample Identification	SVK031WL	SVK031WC	SVK035WL	SVK035WC
Sample Type	LCS	LCD	LCS	LCD
Matrix	Water	Water	Water	Water
Extraction Code	SW3520C	SW3520C	SW3520C	SW3520C
Extraction Date	11/19/2004	11/19/2004	11/22/2004	11/22/2004
Analysis Code	SW8270C-SIM	SW8270C-SIM	SW8270C-SIM	SW8270C-SIM
Analysis Date	11/22/2004	11/22/2004	11/24/2004	11/24/2004
Analyte (Units)				
Semi-Volatile Organic Compounds (%)	Recovery			
	Limit			
1,4-Dioxane	60 - 140	70	63	64
Surrogate (%)				
Bromobenzene	60 - 120	67	55	62
				70

Bold Bolded and underlined result indicates quality control data outside acceptance criteria.

LCS Laboratory control sample

LCD Laboratory control sample duplicate

APPENDIX C

Laboratory Analytical Data (Electronic Copy)

APPENDIX D

Monitoring Well Field Data Sheets

**SEMI-ANNUAL INSPECTION
MONITORING WELLS**

Ground Casing

1. Inside not dirt/rust free
2. Inner Coating in poor condition
3. Inner cap or pump not visibly sound
4. Outside in poor condition

Apron

9. Concrete cracked
10. Annulus not sealed

Accessibility/Surrounding Area

5. Well not visible
6. Well not accessible
7. Soil not flush to apron or proper slope
8. Animal burrows present

Secure

11. Not locked
12. Lid/cap poor condition

Inspection performed shall be indicated by . Deficiencies shall be noted by number of finding.
Monitoring wells indicated with * need to be inspected every two years.

MONITORING/TWL							
A2A	OK	B21	OK	B46*	OK	C9	OK
A3*	OK	B22*	OK	B47*	OK	C10	OK
A4*	OK	B23	OK	B48*	OK	C11	OK
A5	OK	B24*	OK	B49* 4/ ^{1/4} missing backards	"	C12	OK
A7A*	OK	B25	OK	B50* 1/ ^{1/4} "	"	C13	OK
B1*	OK	B26*	OK	B51	OK	C14	OK
B2*	OK	B27	OK	B52*	OK	C15	OK
B3	OK	B28	OK	B53*	OK	C16	OK
B4	OK	B29*	OK	B54*	OK 9	C17	OK
B5	OK	B30*	OK	B55*	OK	C18	OK
B6*	OK	B31*	OK	B56	OK 9	C19	OK
B7	OK	B32*	1/ ^{1/4} backards	B57	OK	C20	OK
B8	OK	B33*	OK	B58	OK	C21	OK
B9*	OK	B34	OK	B59	OK	C22	WW7 (Dry) OK
B10	OK	B35	OK	B60	OK	C23	WW8 OK
B11	OK	B36	OK	B61*	OK	C24	MP3
B12	OK	B37* 4/ ^{1/4} backards	"	B62	OK	C25	MP1
B13*	OK	B38*	OK	C1	OK	C26	MP2
B14A*	OK	B39*	OK	C2 4	"	C27	MP4
B15*	OK	B40	OK	C3	OK	C28	
B16	OK	B41	OK	C4	OK	C-29	
B17*	OK	B42	OK	C5	OK	C-30	
B18*	OK	B43*	OK	C6	OK	C-31	
B19	OK	B44*	OK	C7	OK	C-32	
B20	OK	B45*	9	C8	OK	C-33	OK

(COMPLETE OTHER SIDE OF FORM)

COMMENTS: B-32 Need a new lock. The old one is very hard to open. We even cleaned and lubed it.

B-37 has only 3 Ballards

B-49 - B-50 missing Ballards

C-2 Ballards are leaning

B-45 cracked base

INSPECTED BY: Dave Imay/MWT
DATE: 09/27/04
TIME: 1004

SIGNATURE:



**SEMI-ANNUAL INSPECTION
MONITORING WELLS**

Ground Casing

1. Inside not dirt/rust free
2. Inner Coating in poor condition
3. Inner cap or pump not visibly sound
4. Outside in poor condition

Apron

9. Concrete cracked
10. Annulus not sealed

Accessibility/Surrounding Area

5. Well not visible
6. Well not accessible
7. Soil not flush to apron or proper slope
8. Animal burrows present

Secure

11. Not locked
12. Lid/cap poor condition

Inspection performed shall be indicated by . Deficiencies shall be noted by number of finding.
Monitoring wells indicated with * need to be inspected every two years.

PIEZOMETER/TWL				
P1-D <i>OK</i>	P9-D <i>OK</i>	P17-D <i>OK</i>	P25-D <i>9</i>	P37 <i>OK</i>
P1-S <i>OK</i>	P9-S <i>OK</i>	P17-S <i>OK</i>	P25-S <i>OK</i>	P38 <i>9</i>
P2-D <i>OK</i> <i>6</i>	P10-D <i>OK</i>	P18-D <i>OK</i>	P26-D <i>OK</i>	P39 <i>OK</i>
P2-S <i>OK</i> <i>6</i>	P10-S <i>OK</i>	P18-S <i>OK</i>	P26-S <i>OK</i>	P40 <i>OK</i>
P3-D <i>OK</i>	P11-D <i>OK</i>	P19-D <i>OK</i>	P27-D <i>OK</i>	P41 <i>OK</i>
P3-S <i>OK</i>	P11-S <i>OK</i>	P19-S <i>OK</i>	P27-S <i>OK</i>	P42 <i>9</i>
P4-D <i>OK</i>	P12-D <i>OK</i>	P20-D <i>OK</i>	P28-D <i>OK</i>	P43 <i>OK</i>
P4-S <i>OK</i>	P12-S <i>OK</i>	P20-S <i>OK</i>	P28-S <i>OK</i>	P44 <i>OK</i>
P5-D <i>OK</i>	P13-D <i>OK</i>	P21-D <i>OK</i>	P29 <i>OK</i>	
P5-S <i>OK</i>	P13-S <i>OK</i>	P21-S <i>OK</i>	P30 <i>OK</i>	
P6-D <i>OK</i>	P14-D <i>OK</i>	P22-D <i>OK</i>	P31 <i>OK</i>	
P6-S <i>OK</i>	P14-S <i>OK</i>	P22-S <i>OK</i>	P32 <i>11</i> <i>Needs lock</i>	
P7-D <i>OK</i>	P15-D <i>OK</i>	P23-D <i>OK</i>	P33 <i>OK</i>	
P7-S <i>OK</i>	P15-S <i>OK</i>	P23-S <i>OK</i>	P34 <i>OK</i>	
P8-D <i>OK</i>	P16-D <i>OK</i>	P24-D <i>OK</i>	P35 <i>OK</i>	
P8-S <i>OK</i>	P16-S <i>OK</i>	P24-S <i>OK</i>	P36 <i>OK</i>	

(COMPLETE OTHER SIDE OF FORM)

COMMENTS:

P-0254D are abandoned
P-32 needs a new lock.

INSPECTED BY:

DATE:

TIME:

MWH

09/07/04

SIGNATURE:



**SEMI-ANNUAL INSPECTION
MONITORING WELLS**

Ground Casing

1. Inside not dirt/rust free
2. Inner Coating in poor condition
3. Inner cap or pump not visibly sound
4. Outside in poor condition

Apron

9. Concrete cracked
10. Annulus not sealed

Accessibility/Surrounding Area

5. Well not visible
6. Well not accessible
7. Soil not flush to apron or proper slope
8. Animal burrows present

Secure

11. Not locked
12. Lid/cap poor condition

Inspection performed shall be indicated by . Deficiencies shall be noted by number of finding.
Monitoring wells indicated with * need to be inspected every two years.

SANITARY LANDFILL				
N-111-88 <i>OK</i>	N-117-88 <i>OK</i>	N-135-90 <i>OK</i>	N-4	
N-112-88 <i>OK</i>	N-118-88 <i>OK</i>	N-136-90 <i>OK</i>	Unknown	
N-114-88 <i>OK</i>	N-119-88 <i>OK</i>	N-142-93 <i>OK</i>	N-150-97	
N-115-88 <i>OK</i>	N-120-88 <i>OK</i>	N-143-93 <i>S</i>	<i>S</i>	
N-116-88 <i>OK</i>	N-134-90 <i>OK</i>	N-144-93 <i>OK</i>		

TNT WASHOUT				
N-3A <i>OK</i>	N-127-88 <i>OK</i>	N-131-90 <i>OK</i>	N-147-97 <i>OK</i>	
N-3H <i>OK</i>	N-128-88 <i>OK</i>	N-132-90 <i>OK</i>	N-148-97 <i>OK</i>	
N-3I <i>OK</i>	N-129-88 <i>OK</i>	N-133-90 <i>OK</i>		
N-110-88 <i>OK</i>	N-130-88 <i>OK</i>	N-146-97 <i>OK</i>		

X-RAY LAGOON				
N-137-90 <i>OK</i>	N-140-93 <i>OK</i>	N-145-93 <i>OK</i>		
N-139-90 <i>OK</i>	N-141-93 <i>OK</i>	N-149-97 <i>OK</i>		

(COMPLETE OTHER SIDE OF FORM)

COMMENTS:

N-143-93 is not visible
Sage brush is covering it.

XRay lagoon wells are very dirty
the water is rust brown, hard to get a
good water level.

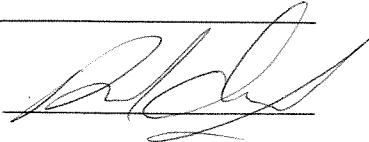
INSPECTED BY:

DATE:

TIME:

Dave Emley

SIGNATURE:



TEAD SWMU 2/IWL
SEMI-ANNUAL GROUNDWATER ELEVATION FORM

Loc-id	Depth to water	Field		
		Date	Time	Personn
A-02A	887.48	9/24/04	0714	
A-03	236.31	9/24/04	1002	AS
A-04	251.67	9/24/04	1016	AT
A-05				
A-07A	313.11	9/24/04	1056	SP
B-01				
B-02	319.38	9/23/04	1450	AT
B-03	753.79	9/23/04	1029	AS
B-04				
B-05	329.51	9/24/04	1032	AS
B-06				
B-07				
B-08				
B-09				
B-10				
B-11				
B-12				
B-13				
B-14A				
B-15				
B-16				
B-17				
B-18				
B-19				
B-20				
B-21				
B-22	226.84	9/24/04	1007	AT
B-23				
B-24				
B-25				
B-26	309.83	9/24/04	1148	SP
B-27	237.89	9/24/04	1020	AT
B-28				
B-29				
B-30				
B-31				
B-32				
B-33				
B-34				
B-35				

TEAD SWMU 2/IWL
SEMI-ANNUAL GROUNDWATER ELEVATION FORM

Loc-id	Depth to water	Date	Time	Field Personn
B-36				
B-37				
B-38				
B-39				
B-40				
B-41				
B-42				
B-43				
B-44				
B-45				
B-46				
B-47				
B-48				
B-49				
B-50				
B-51				
B-52				
B-53				
B-54	320.69	9/24/04	0816	st
B-55				
B-56	309.34	9/24/04	1102	st
B-57				
B-58				
B-59				
B-60				
B-61				
B-62				
C-01				
C-02				
C-03				
C-04				
C-05				
C-06				
C-07				
C-08				
C-09	299.92	9/24/04	1115	st
C-10				
C-11				
C-12	330.26	9/23/04	1330	
C-13	257.73	9/27/04	1204	

B6 MPC
300.35

TEAD SWMU 2/IWL
SEMI-ANNUAL GROUNDWATER ELEVATION FORM

Loc-id	Depth to water	Date	Time	Field Personn
C-14				
C-15	388.02	9/23/04	1506	
C-16	354.10	9/23/04	1706	
C-17	357.80	9/23/04	1704	
C-18	297.29	9/23/04	1425	10
C-19	348.70	9/23/04	1657	
C-20	343.13	9/23/04	1713	AP
C-21	361.77	9/23/04	1452	AP
C-22	358.67	9/23/04	1540	AP
C-23	377.56	9/23/04	1640	AP
C-24	352.01	9/23/04	1519	AP
C-25	323.55	9/23/04	1025	AP
C-26	356.65	9/23/04	1534	AP
C-27	408.12	9/23/04	1554	
C-28	407.06	9/23/04	1558	
C-29	413.15	9/23/04	1603	
C-30	286.84	9/23/04	1513	AP
C-31	349.77	9/23/04	1502	
C-32	386.31	9/23/04	1339	
C-33	354.73	9/23/04	1524	AP
C-34	331.95	9/23/04	1718	AP
C-35	314.62	9/23/04	0746	
C-36	279.65	9/23/04	1726	AP
C-37	313.68	9/23/04	0750	AP
C-38	280.37	9/23/04	1433	
C-39	332.67	9/23/04	1530	
C-40	275.68	9/23/04	1122	AP
D-01	267.49	9/23/04	1253	AP
D-02	354.56	9/23/04	1417	AP
D-03	195.27	9/23/04	1227	AP
D-04	265.18	9/23/04	1308	AP
D-05	191.74	9/23/04	1231	
D-06	279.31	9/23/04	1246	AP
D-07	189.64	9/23/04	1236	AP
D-08		9/24/04		AP
D-09	118.94	9/23/04	1322	AP
D-10	175.66	9/23/04	1220	AP
N-03A	256.74	9/23/04	0831	AP
N-03H	246.85	9/23/04	0755	AP
N-03I	47.45	9/23/04	0806	AP

-Abandoned / confirmed by Carl Cole

Bad lock.

TEAD SWMU 2/IWL
SEMI-ANNUAL GROUNDWATER ELEVATION FORM

Loc-id	Depth to water	Date	Time	Field Personn
N-08B				
N-110-88	315.04	9/24/04	0912	AP
N-112-88	329.18	9/23/04	1111	AS
N-114-88	325.73	9/23/04	0939	AS
N-115-88	319.93	9/23/04	1144	"
N-116-88	284.00	9/23/04	1138	AS
N-117-88	232.20	9/23/04	1156	AS
N-118-88				
N-119-88	NA	9/24/04	0725	AS
N-120-88	307.64	9/24/04	0734	AS
N-127-88	234.28	9/23/04	0722	AS
N-128-88	234.45	9/23/04	0728	AS
N-129-88	225.70	9/23/04	0720	AS
N-130-88	218.236.77	9/23/04	0741	AS
N-131-90	224.54	9/23/04	0822	AS
N-132-90	223.85	9/23/04	0816	AS
N-133-90	249.32	9/23/04	0748	AS
N-134-90				
N-135-90	234.82	9/23/04	1203	AS
N-136-90	245.60	9/23/04	0131	AS
N-137-90	Bottom 304.10	9/23/04	0916	AS
N-138-90		9/24/04		DI
N-139-90	Dry/286.47	9/23/04	0900	AS
N-140-93	324.75	9/23/04	0922	AS
N-141-93	309.18	9/23/04	0926	AS
N-142-93	355.16	9/23/04	1010	AS
N-143-93	325.2000	9/23/04	1054	AS
N-144-93	299.91	9/23/04	1117	AS
N-145-93	274.00	9/23/04	0835	AS
N-146-97	260.59	9/23/04	0840	AS
N-147-97	254.32	9/23/04	0836	AS
N-148-97	Q34.58	9/23/04	0736	AS
N-149-97	284.25	9/23/04	0902	AS
N-150-97	278.98	9/24/04	0728	
P-01D				
P-01S				
P-02D		9/24/04		DI
P-02S		9/24/04		DI
P-03D				
P-03S				

Blocked 293

→ NO H₂O reading
rusty strings

325.26

Bad lock

→ Abandoned / confirmed by Carl Cole

Bad lock

→ Abandoned - confirmed by Carl Cole

TEAD SWMU 2/IWL
SEMI-ANNUAL GROUNDWATER ELEVATION FORM

Loc-id	Depth to water	Date	Time	Field Personn
P-04D				
P-04S				
P-05D	780.30	9/24/04	0809	
P-05S	826.78	9/24/04	0807	02
P-06D	347.00	9/23/04	1445	11
P-06S	345.70	9/23/04	1443	11
P-07D				
P-07S				
P-08D	329.87	9/24/04	1042	11
P-08S	88.08	9/24/04	1045	11
P-09D				
P-09S				
P-10D				
P-10S				
P-11D				
P-11S				
P-12D				
P-12S				
P-13D				
P-13S				
P-14D				
P-14S				
P-15D				
P-15S				
P-16D				
P-16S				
P-17D				
P-17S				
P-18D	314.77	9/24/04	1109	11
P-18S	Dry	1104/05/04	1107	10
P-19D				
P-19S				
P-20D				
P-20S				
P-21D				
P-21S				
P-22D				
P-22S				
P-23D				
P-23S				

TEAD SWMU 2/IWL
SEMI-ANNUAL GROUNDWATER ELEVATION FORM

Loc-id	Depth to water	Date	Time	Field Personn
P-24D				
P-24S				
P-25D				
P-25S				
P-26D				
P-26S				
P-27D				
P-27S				
P-28D				
P-28S				
P-29				
P-30				
P-31				
P-32				
P-33				
P-34	135.91	9/21/04	0613	DS/DE
P-35				
P-36				
P-37				
P-38				
P-39				
P-40				
P-41				
P-42				
P-43				
P-44				
T-02				
T-03				
T-04				
T-05				
T-06				
T-07	323.12	9/23/04	1100	SV
WW-07				
WW-08				

TEAD SWMU 2/IWL
SEMI-ANNUAL GROUNDWATER ELEVATION FORM

Loc-id	Depth to water	Date	Time	Field Personn	Condition
A-02A					
A-03					
A-04					
A-05	223.75	9/27/09	1158	JD/JS	
A-07A					
B-01	211.18	9-23-04	1620	JD/JS	
B-02					
B-03					
B-04	179.95	9/23/09	1548	JD/JS	
B-05					
B-06	179.87	9-23-04	1500	JD/JS	
B-07	251.06	9/24/09	0720	JS/JD	
B-08	239.21	9/24/09	0756	JS/JD	
B-09	297.83	9/27/09	0803	JS/JD	
B-10	222.41	9/27/09	0835	JS/JD	
B-11	239.66	9-24-04	0855	JD/JS	
B-12	263.16	9-23-04	0715	JS/JD	OK
B-13	260.51	9/23/09	1740	JD/JD	
B-14A	233.39	9/23/04	1320	JS/JD	
B-15	228.53	9-23-04	1045	JD/JS	
B-16	231.33	9/23/09	1125	JS/JD	
B-17	190.81	9-23-04	1100	JS/JD	
B-18	203.23	9/23/09	1215	JS/JD	
B-19	181.60	9/23/09	1025	JS/JD	
B-20	288.01	9-24-04	1030	JD/JS	
B-21	239.30	9-24-04	1045	JD/JS	
B-22					
B-23	158.76	9-23-04	1605	JD/JS	
B-24	224.58	9-24-09	0930	JD/JS	
B-25	175.13	9-23-04	1130	JD/JS	
B-26					
B-27					
B-28	291.99	9-23-04	1515	JD/JS	
B-29	238.00	9-23-04	1300	JD/JS	
B-30	231.57	9-23-04	1255	JD/JS	
B-31	211.39	9-23-04	1110	JD/JS	
B-32	199.55	9-23-04	1105	JD/JS	
B-33	177.11	9-23-04	1040	JD/JS	
B-34	179.99	9/23/09	1135	JD/JS	
B-35	172.21	9-23-04	1140	JD/JS	

mark out

Needs new lock

TEAD SWMU 2/IWL
SEMI-ANNUAL GROUNDWATER ELEVATION FORM

Loc-id	Depth to water	Date	Time	Field Personn
B-36	160.19	9-23-04	1540	JD/JS
B-37	151.15	9/23/04	1015	JD/JS
B-38	142.35	9-23-04	1028	JD/JS
B-39	157.10	9/23/04	1004	JD/JS
B-40	161.68	9/23/04	1035	JD/JS
B-41	175.63	9/23/04	0950	JD/JS
* B-42	126.46	9-23-04	0745	JD/JS
* B-43	120.28	9-23-04	0750	JD/JS
* B-44	138.85	9-23-04	0740	JD/JS
* B-45	132.33	9-23-04	0736	JD/JS
* B-46	121.70	9/23/04	0746	...
B-47	119.57	9-23-04	0911	JD/JB
B-48	111.82	9-23-04	0919	JD/JS
* B-49	132.77	9-23-04	0742	JD/JS
B-50	160.47	9/23/04	1008	JD/JS
B-51	175.63	9/23/04	0950 1053	JD/JS
B-52	176.27	9/23/04	0955	JD/JS
B-53	192.83	9-23-04	0932	JD/JS
B-54				
B-55	265.16	9/27/04	1102	JD/JS
B-56				
B-57	243.33	9-24-04	0725	JD/JS
B-58	229.88	9/23/04	1713	JS/JD
B-59	228.32	9-23-04	1250	JD/JB
B-60	205.59	9/23/04	1230	JS/JD
B-61	214.21	9/23/04	1235	JS/JD
B-62	217.80	9-23-04	1240	JD/JS
C-01	174.35	9/23/04	1205	JD/JS
C-02	149.13	9-23-04	0837	JD/JS
C-03	131.81	9-23-04	0853	JD/JS
C-04	118.71	9-23-04	0900	JD/JS
C-05	140.30	9-23-04	0922	JD/JS
C-06	172.18	9-23-04	0938	JD/JS
C-07	210.77	9/23/04	0945	JD/JS
C-08	228.82	9/23/04	1115	JD/JS
C-09	300.35	9/21/04	1125	JD/JS
C-10	227.73	9/21/04	0845	JS/JD
C-11	161.65	9-24-04	0850	JD/JS
C-12				
C-13				

1023 - only has three bollards

9-23-04 at 0919 120.33 with Solinst BG

PAO cracks in base

MISSING BOLLARD, EAST BOLLARD ~ 33°

MISSING BOLLARD

One bollard leaning with concrete shawsh

mwh TAPE 299.92

TEAD SWMU 2/IWL
SEMI-ANNUAL GROUNDWATER ELEVATION FORM

Loc-id	Depth to water	Date	Time	Field Personn
C-14	246.59	9/29/09	0920	B/JD
C-15				
C-16				
C-17				
C-18				
C-19				
C-20				
C-21				
C-22				
C-23				
C-24				
C-25				
C-26				
C-27				
C-28				
C-29				
C-30				
C-31				
C-32				
C-33				
C-34				
C-35				
C-36				
C-37				
C-38				
C-39				
C-40				
D-01				
D-02				
D-03				
D-04				
D-05				
D-06				
D-07				
D-08		Abandon		
D-09				
D-10				
N-03A				
N-03H				
N-03I				

TEAD SWMU 2/IWL
SEMI-ANNUAL GROUNDWATER ELEVATION FORM

Loc-id	Depth to water	Date	Time	Field Personn
N-08B	170.77	9/23/04	1140	JS/JD
N-110-88				
N-112-88				
N-114-88				
N-115-88				
N-116-88				
N-117-88				
N-118-88	241.60	9-23-04	1650	JD/JS
N-119-88				
N-120-88				
N-127-88				
N-128-88				
N-129-88				
N-130-88				
N-131-90				
N-132-90				
N-133-90				
N-134-90	191.31	9/23/04	1615	JS/JD
N-135-90				
N-136-90				
N-137-90				
N-138-90	ABANDONED			
N-139-90				
N-140-93				
N-141-93				
N-142-93				
N-143-93				
N-144-93				
N-145-93				
N-146-97				
N-147-97				
N-148-97				
N-149-97				
N-150-97				
P-01D	211.12	9-23-04	1625	JD/JS
P-01S	DRY	9-23-04	1630	JD/JS
P-02D	ABANDONED			
P-02S				
P-03D	177.28	9/23/04	1550	JS/JD
P-03S	199.28	9/23/04	1553	JS/JD

191.71

TD = 64.87

TEAD SWMU 2/IWL
SEMI-ANNUAL GROUNDWATER ELEVATION FORM

N

Loc-id	Depth to water	Date	Time	Field Personn
P-04D	225.83	9-24-04	1110	JD/JS
P-04S	DRY	9-24-04	1115	JD/JS
P-05D				
P-05S				
P-06D				
P-06S				
P-07D	262.81	9-24-04	0915	JD/JS
P-07S	358.45	9-24-04	0910	JD/JS
P-08D				
P-08S				
P-09D	321.50	9/27/04	0938	JD/JS
P-09S	DRY	9/27/04	0935	JD/JS
P-10D	303.40	9-24-04	0815	JD/JS
P-10S	292.27	9-24-04	0810	JD/JS
P-11D	331.41	9-24-04	0905	JD/JS
P-11S	324.27	9-24-04	0900	JD/JS
P-12D	247.76	9-24-04	0745	JD/JS
P-12S	DRY	9-24-04	0730	JD/JS
P-13D	289.74	9-23-04	1920	JD/JS
P-13S	DRY	9-23-04	1525	JD/JS
P-14D	286.95	9-24-04	1015	JD/JS
P-14S	DRY	9-24-04	1035	JD/JS
P-15D	235.48	9/23/04	1312	JS/JD
P-15S	DRY	9/23/04	1308	JS/JD
P-16D	253.48	9/23/04	1435	
P-16S	252.38	9/23/04	1430	JS/JD
P-17D	231.40	9/23/04	1328	JS/JD
P-17S	230.60	9/23/04	1325	JS/JD
P-18D				
P-18S				
P-19D	200.43	9/23/04	1220	JS/JD
P-19S	203.86	9/23/04	1218	JS/JD
P-20D	188.82	9/23/04	1050	JS/JD
P-20S	DRY	9/23/04	1055	JS/JD
P-21D	245.29	9-23-04	1400	JD/JS
P-21S	245.46	9-23-04	1405	JD/JS
P-22D	245.08	9/23/04	1415	JD/JS
P-22S	245.22	9/23/04	1412	JD/JS
P-23D	245.63	9-23-04	1425	JD/JS
P-23S	245.87	9-23-04	1430	JD/JS

TD=223.78

- DIRTY WELL - Filter on Indication
306.22 TD

TD=246.31

TD=289.28

TD=262.41

TD 229

-

TD = 230.60

CIRUS TRANSDUCER

TD 188.36

DRY

DRY

TEAD SWMU 2/IWL
SEMI-ANNUAL GROUNDWATER ELEVATION FORM

Loc-id	Depth to water	Date	Time	Field Personn
P-24D	244.00	9-23-04	1400	JD/JS
P-24S	DRY	9-23-04	1355	JD/JS
P-25D	178.94	9/23/07	1600	JS/JD
P-25S	175.72	9/23/04	1558	JS/JD
P-26D	229.62	9-23-04	1705	JD/JS
P-26S	277.90	9-23-04	1710	JD/JS
P-27D	244.36	9-24-04	0736	JD/JS
P-27S	244.59	9-24-04	0730	JD/JS
P-28D	151.10	9/23/07	1148	JS/JD
P-28S	DRY	9/23/07	1145	JS/JD
P-29	188.45	9/23/07	1610	JS/JD
P-30	DRY	9/24/04	0745	JS/JD
P-31	DRY	9/24/04	0740	JS/JD
P-32	149.62	9-23-04	0840	JD/JD
P-33	133.84	9-23-04	0857	JD/JS
P-34	235.91	9/24/04	0645	JS/JD
P-35	123.17	9-23-04	0906	JD/JS
P-36	192.35	9/23/07	1155	JD/JS
P-37	134.15	9/23/07	1018	JD/JS
P-38	138.74	9/23/07	1012	JD/JS
P-39	221.91	9-23-04	0800	JD/JS
P-40	161.28	9/23/07	1535	JS/JD
P-41	148.32	9/23/07	1538	JS/JD
P-42	271.13	9/23/07	1950	JD/JS
P-43	271.67	9/23/07	1454	JD/JS
P-44	269.38	9-24-04	0845	JD/JS
T-02	247.55	9/24/04	1053	JD/JS
T-03	216.25	9-24-04	1100	JD/JS
T-04	171.06	9/23/07	1515	JD/JS
T-05	255.04	9/27/04	0915	JS/JD
T-06	254.51	9-23-04	1505	JD/JS
T-07				
WW-07	245.73	9/23/07	1410	JD/JS
WW-08	271.85	9/24/04	0737	JS/JD

TD 232.13'
CRACKED BASE

Southwest casing H 86239
-Northern most casing H 86332

TD 156.85

TD 238.07

TD -109.50

NEEDS NEW LOOK

EROSION AROUND BILLINGS, OK

CRACKS IN BASE

1470491, 020101 TEND OEM
THURSDAY, SEPTEMBER 23rd, 2004

J. Dahl 109
J. Stewart

0715 Begin Water Levels

Loc-Id	Depth		
B-12	263.16	P-38	138.74
B-49	132.23	P-37	137.15
B-44	138.85	B-37	148.65
B-49	132.77	B-38	149.25
B-46	121.70	B-40	161.68
B-43	120.28	B-33	177.11
B-42	126.46	B-19	181.60
P-39	145.03	P-20D	188.82 <small>axis min. roll</small>
C-02	149.13	P-20S	188.36 <small>Dry</small>
P-22	149.82	B-17	190.81
C-03	132.81	B-38	199.55
P-33	133.84	B-31	211.34
C-04	118.71	C-08	228.82
P-35	123.17	B-16	231.33
B-47	119.54	B-29	175.13
B-48	111.82	B-34	174.94
C-05	140.30	N-83	170.77
B-53	192.83	B-35	172.21
C-06	172.18	P-28S	Dry TD 156.85
C-07	210.77	P-28D	151.10
B-51	175.63	P-36	192.35
B-52	176.27	C-01	174.35
B-51	160.63	B-18	203.23
B-39	157.10	P-18S	203.86
			49 48

110

1970-91.02010 | TEAD 0PM

4-23-04, Page 2

J. Delpia
J. Stewart

Loc-ID	Depth	Loc-ID	Depth
P-18D	200.43	P-42	271.13
B-60	205.59	P-43	271.67
B-61	214.21	B-06	274.87
B-62	217.80	T-06	294.51
B-15	228.53	T-04	171.06
B-59	229.32	B-28	991.94
B-30	231.57	P-135	DRY-TD=289.28
B-29	238.00	P-13D	289.94
P-15S	DRY TD 229	P-41D	161.28
P-15D	235.98	P-41	148.32
B-14A	233.39	B-36	160.17
P-17S	DRY 230.60	B-04	179.95
P-17D	231.40	P-03S	179.28
P-24S	DRY 222.13	P-03D	194.71
P-24D	244.00	P-25S	175.72
P-21S	245.46	P-25D	178.94
P-21D	245.29	B-23	158.76
WW-7	245.73	P-29	188.45
P-22S	245.22	N-134-90	191.39
P-22D	245.08	B-1	211.18
P-23S	245.87	P-01S	DRY TD=64.87
P-23D	245.63	P-01D	211.12
P-16S	252.38	N-118-88	241.60
P-16D	253.48	P-26S	272.90
B-13	260.51	P-26D	229.62

1970-91.02010 | TEAD 0PM

J.S
J.D

111

9/23/01 Page 5

Loc-ID	Depth	Loc-ID	Depth
B-58	229.88		

P-40 Leave TEAD

1970981.090101 TEAD 0FM

112
FRIDAY SEPTEMBER 24th, 2004

0700 Arrive at TEAD 06-6

J. P. L. 1115
J. Stewart

Loc-ID	Depth
P-34	235.91
T-09	255.04
B-07	251.06
B-57	243.33
P-27S	244.59
P-27D	244.36
WW-08	241.85
P-31	DRY TD 109.50
P-30	DRY TD 238.07
P-12S	DRY 242.21 TD
P-12D	247.76
B-8	239.21
B-9	297.83
P-10S	222.87
P-10D	303.40
B-10	222.91
C-10	224.73
P-4W	262.38
C-11	261.65
B-11	235.65
P-11S	234.27
P-11D	231.41
P-07S	258.95
P-07D	262.81

✓

113

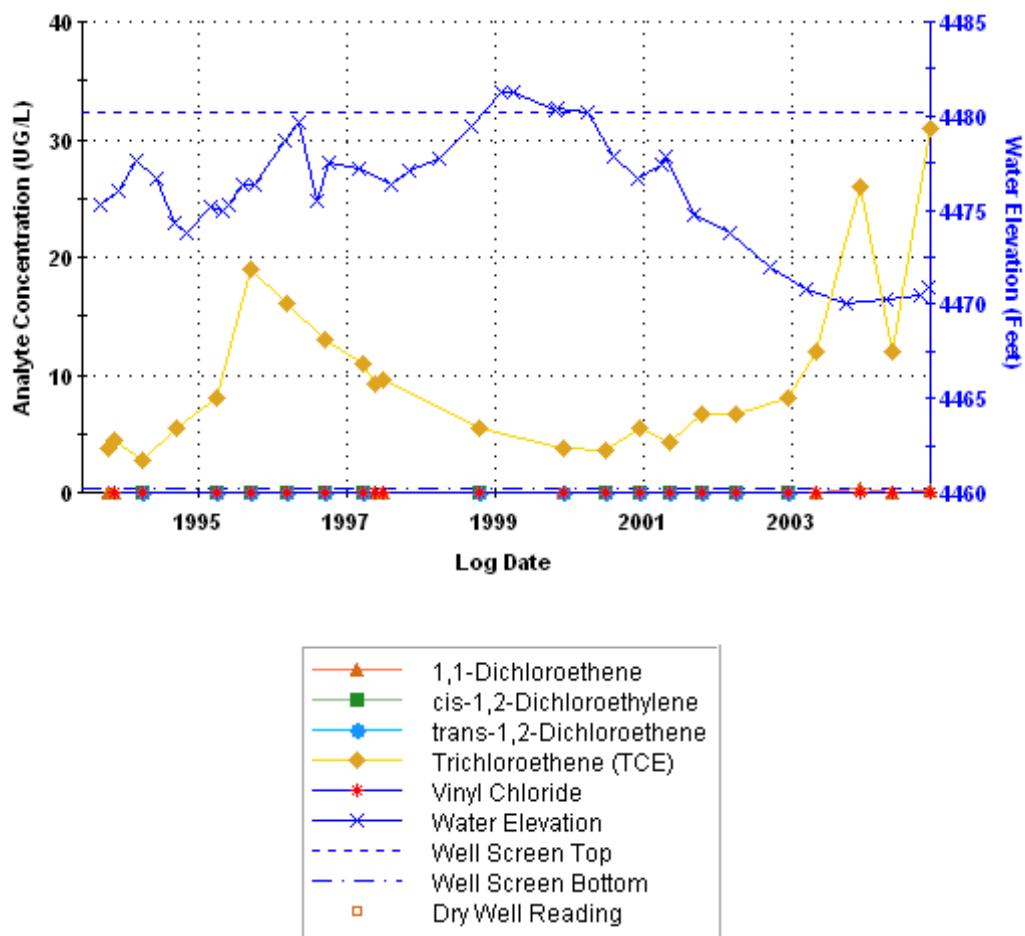
J. P. L. 1115
J. Stewart

Loc-ID	Depth
C-14	246.59
B-24	324.58
P-09 S DRY	306.22 TD
P-09D	321.50
P-14D	286.95
P-14S DRY	TD = 262.41
B-20	288.01
B-21	239.30
T-02	247.55
A-05	223.75
T-03	216.25
B-5S	265.16
P-0WS DRY	223.78 TD
P-04D	225.83
1200	Leave TEAD QF-6

APPENDIX E

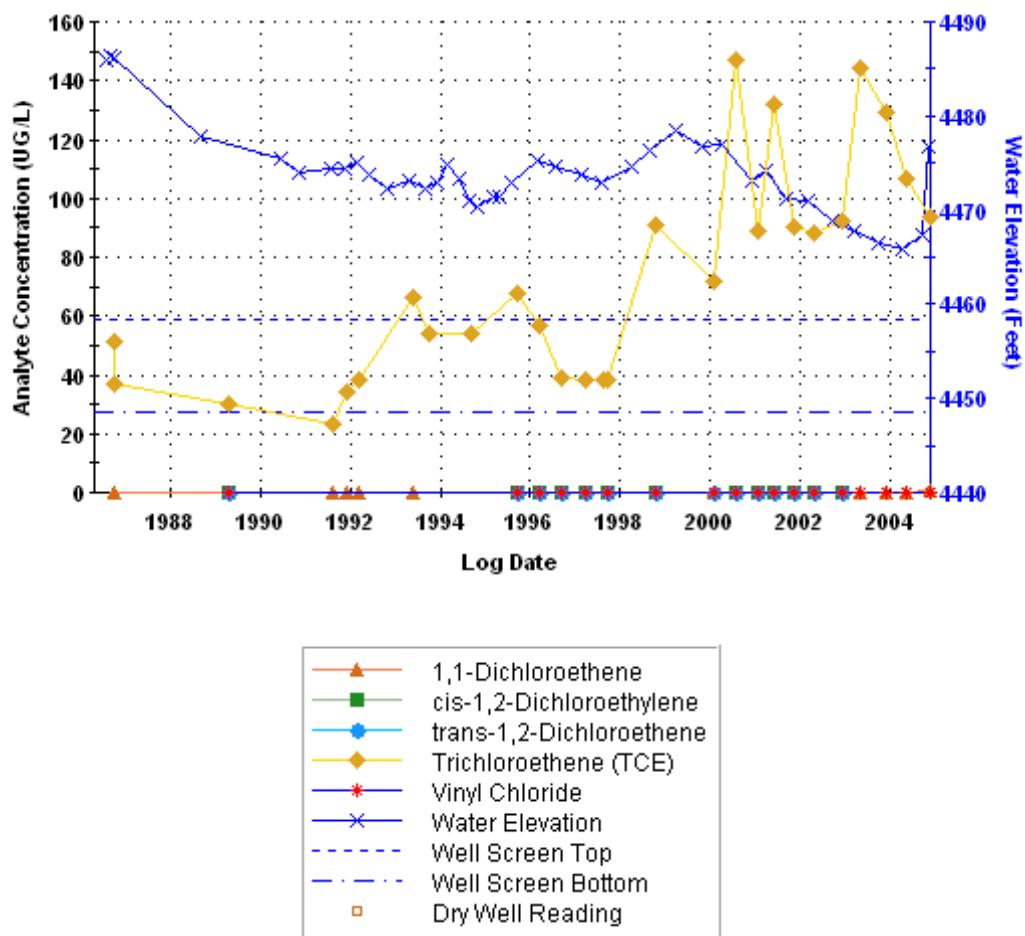
Hydrographs for Selected Wells and Analytes

TCE Breakdown Products
Location A-02A, Tooele Army Depot



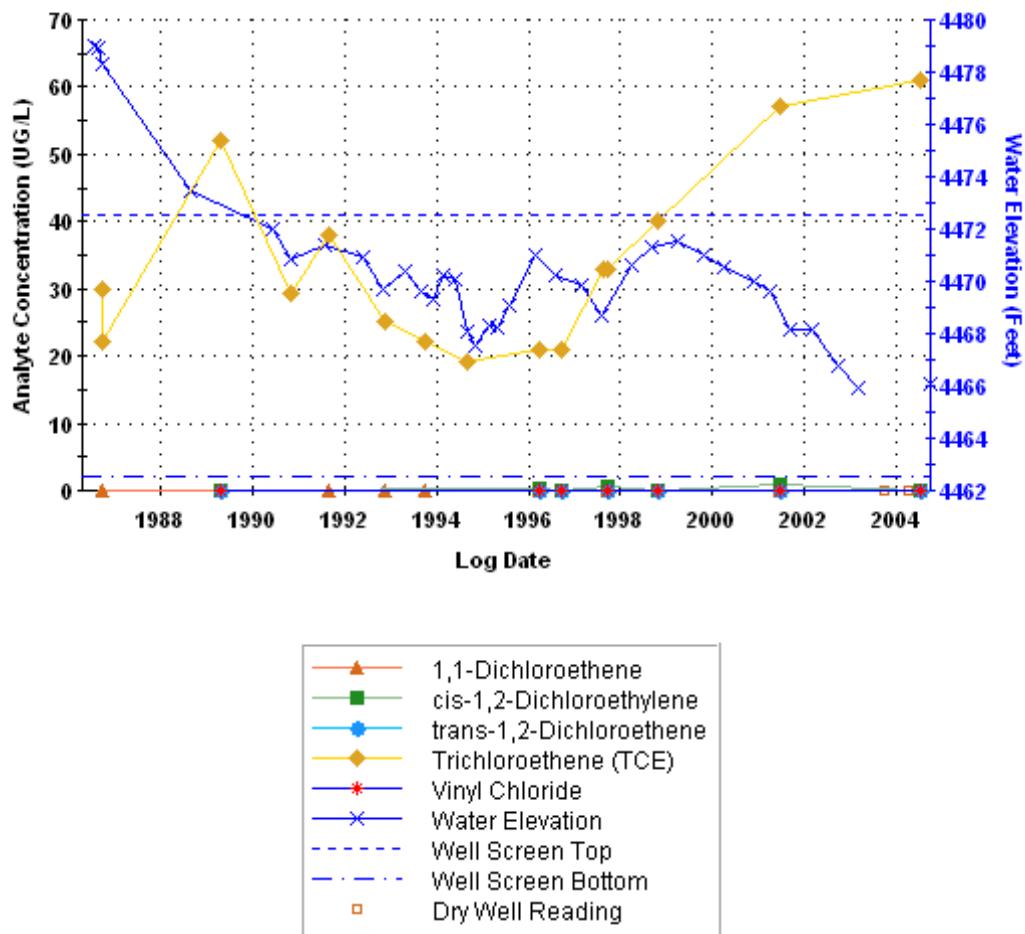
TEAD – Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location B-03, Tooele Army Depot



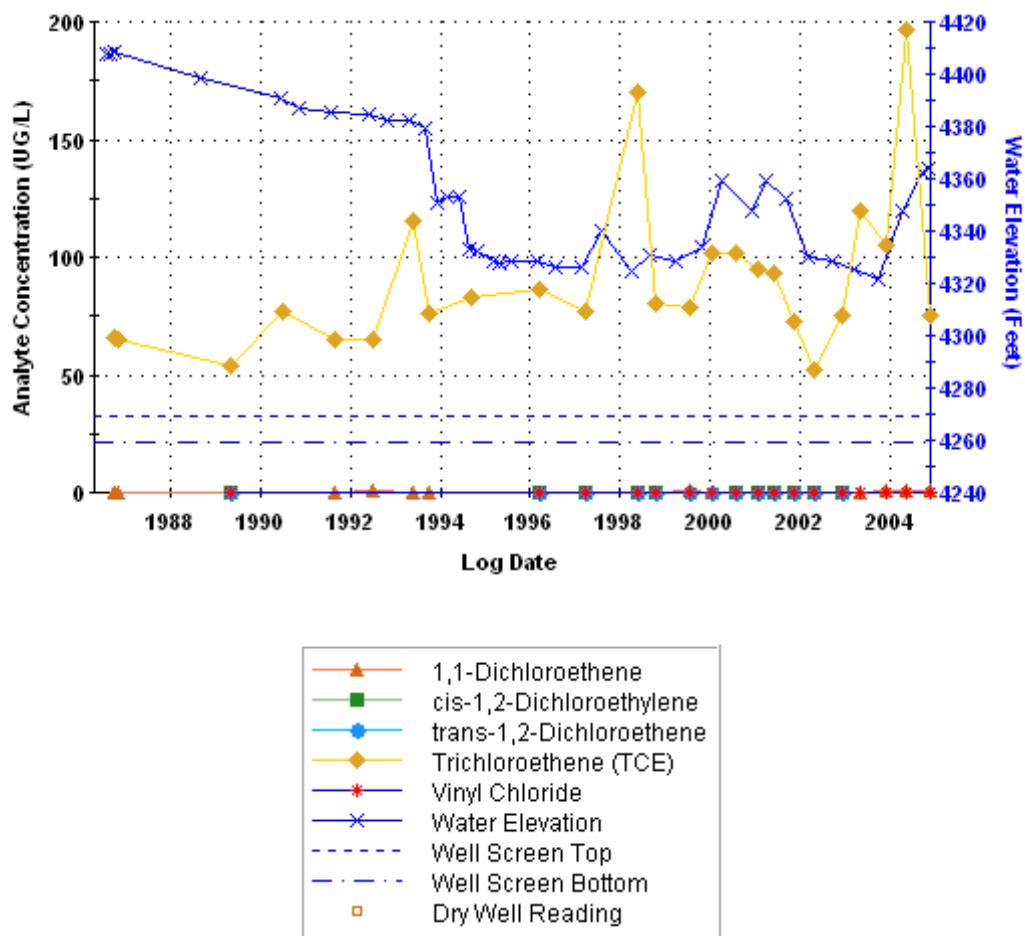
TEAD – Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location B-04, Tooele Army Depot



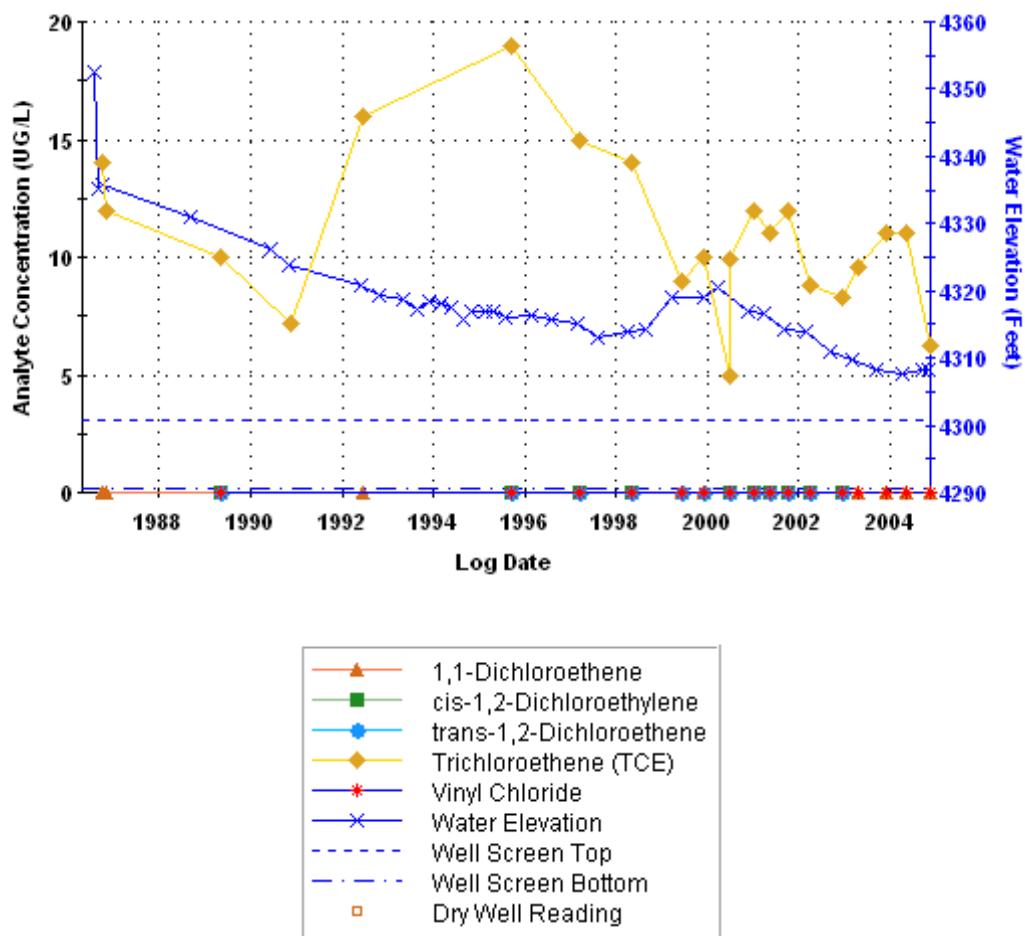
TEAD - Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location B-05, Tooele Army Depot



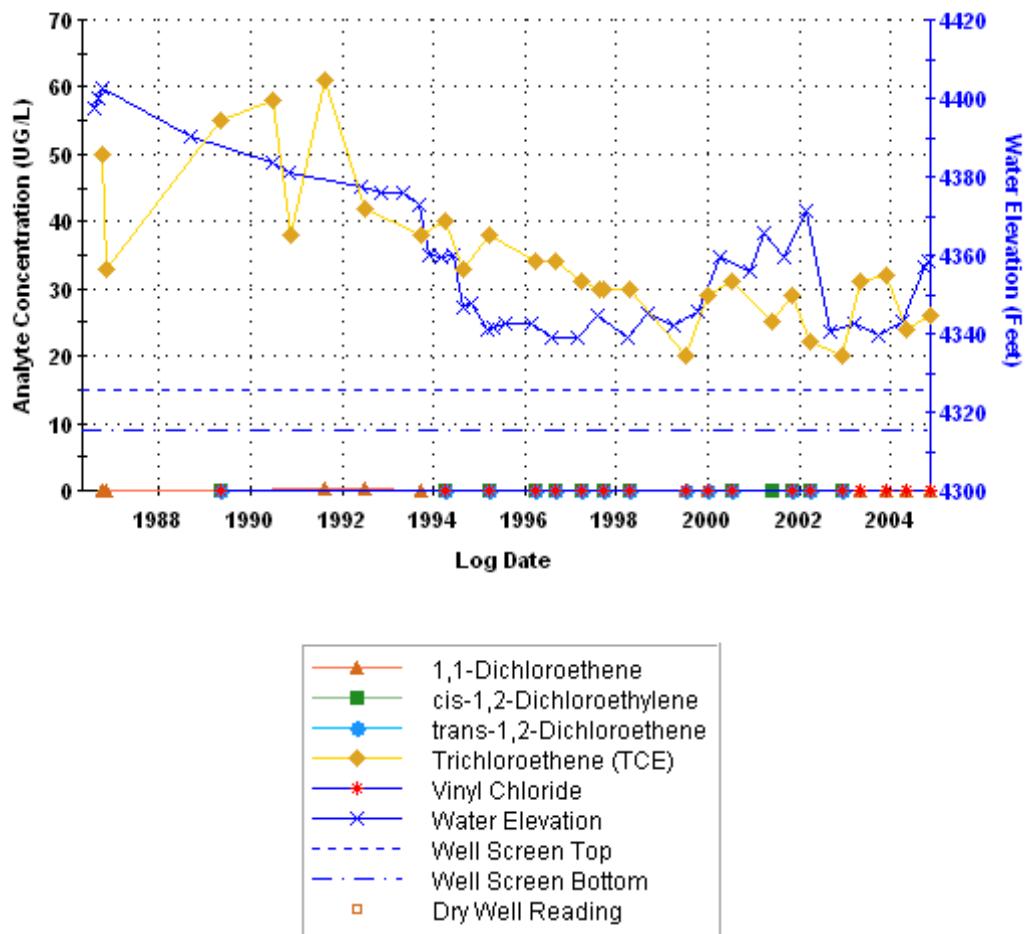
TEAD – Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location B-06, Tooele Army Depot



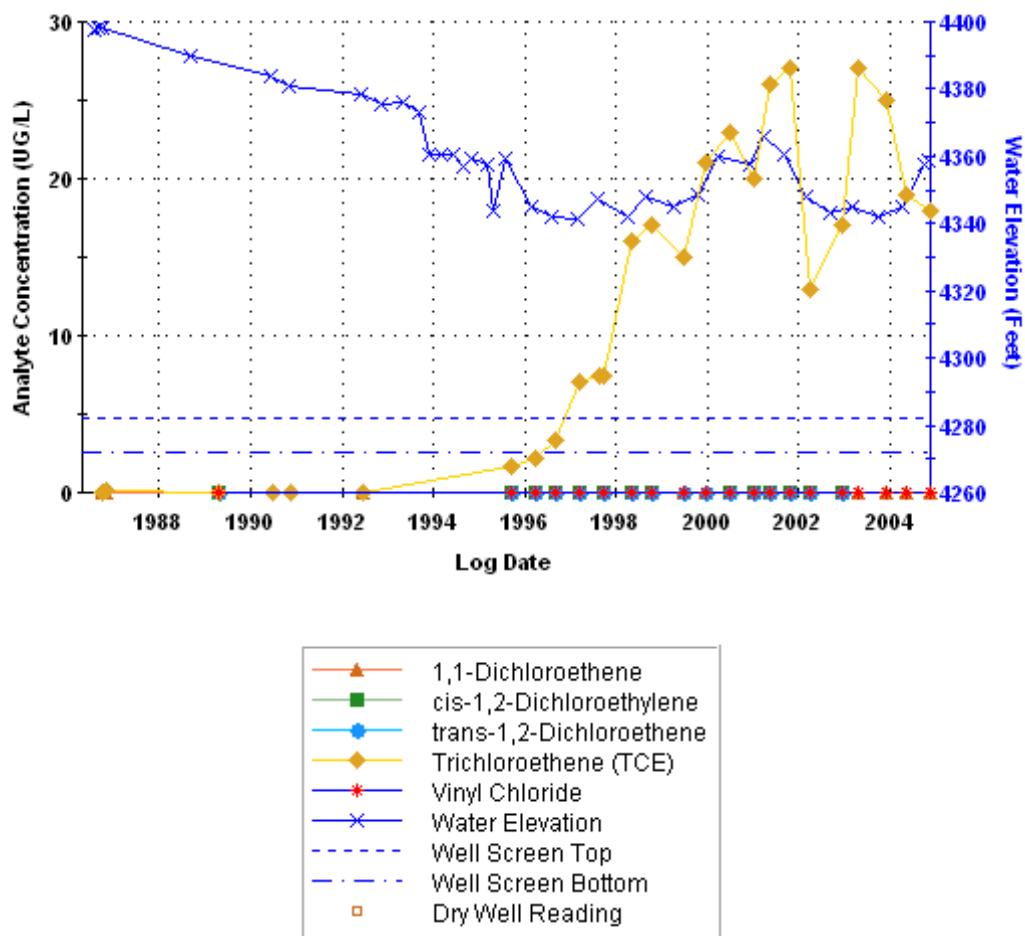
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location B-07, Tooele Army Depot



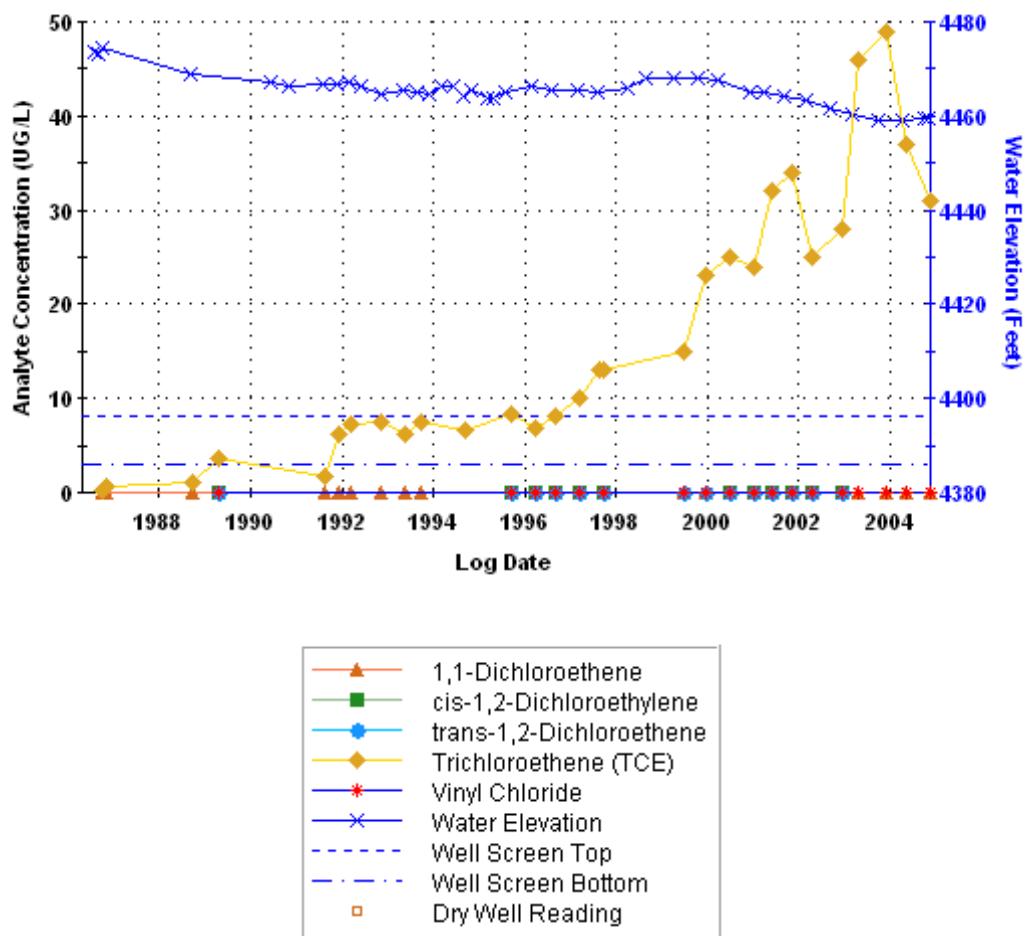
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location B-09, Tooele Army Depot



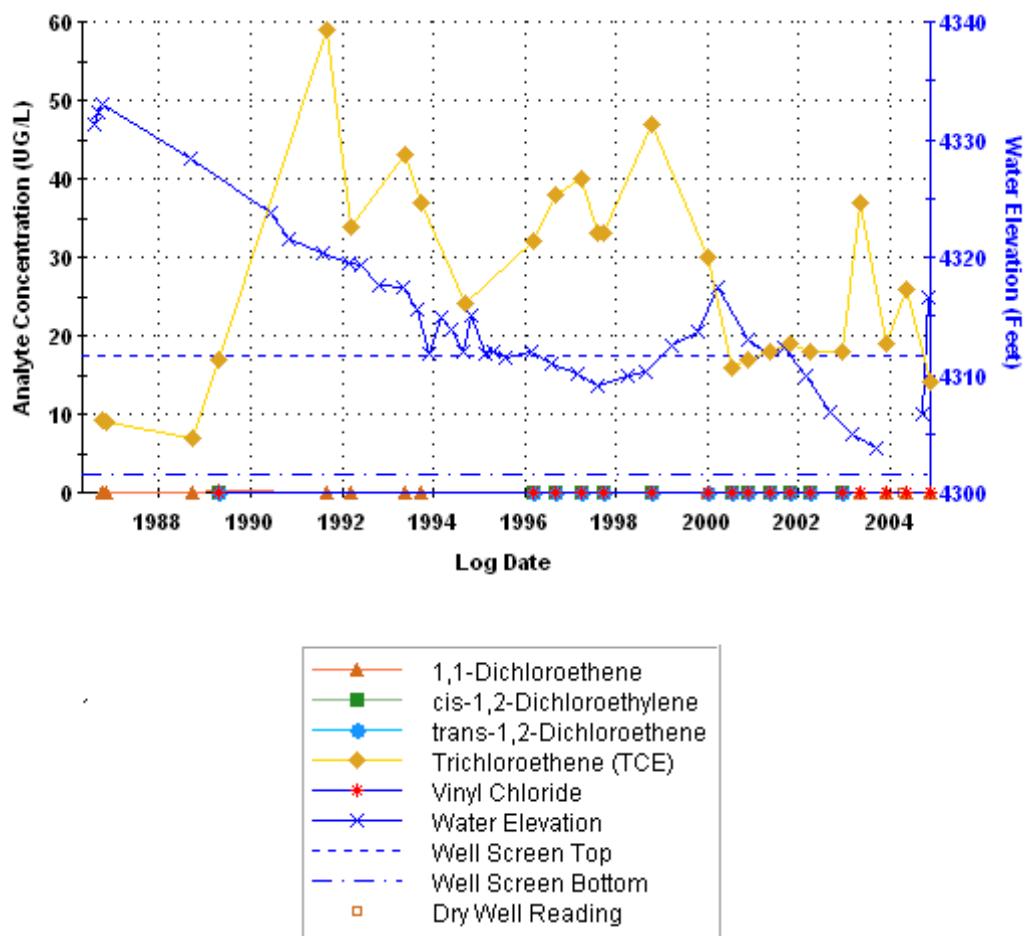
TEAD – Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location B-10, Tooele Army Depot



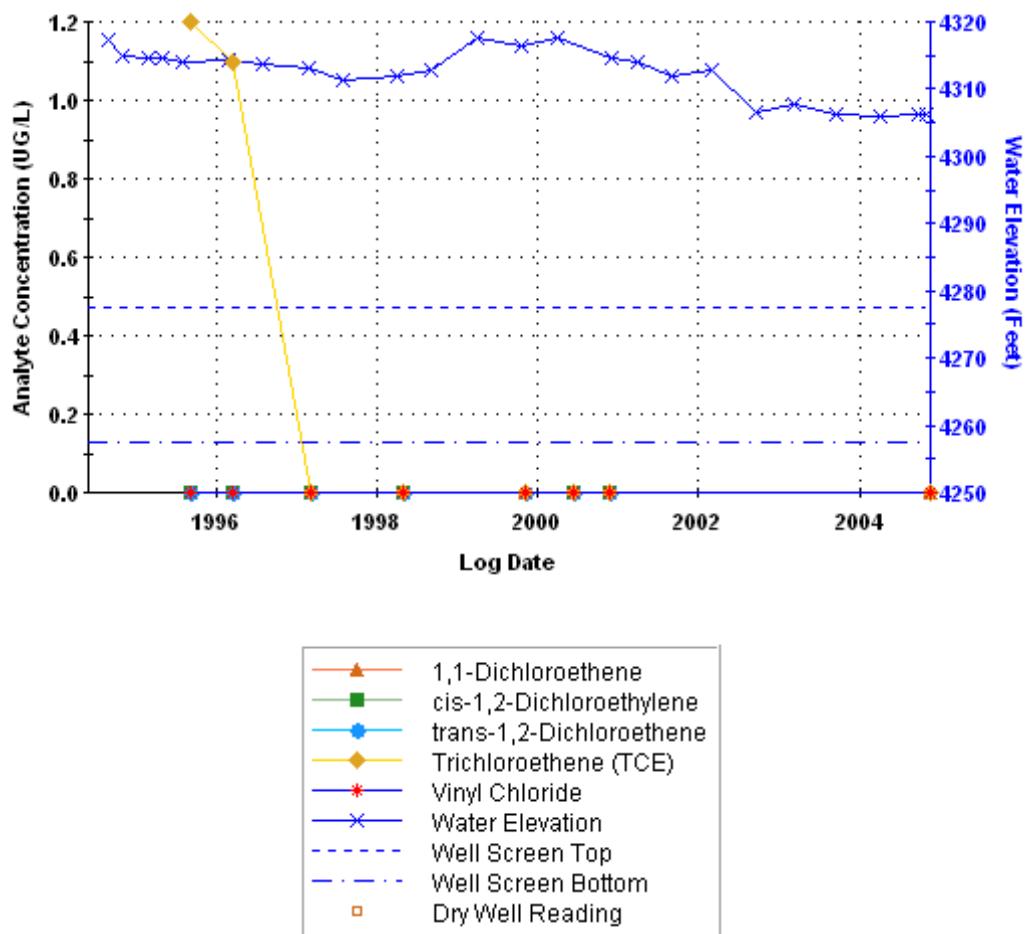
TEAD – Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location B-12, Tooele Army Depot



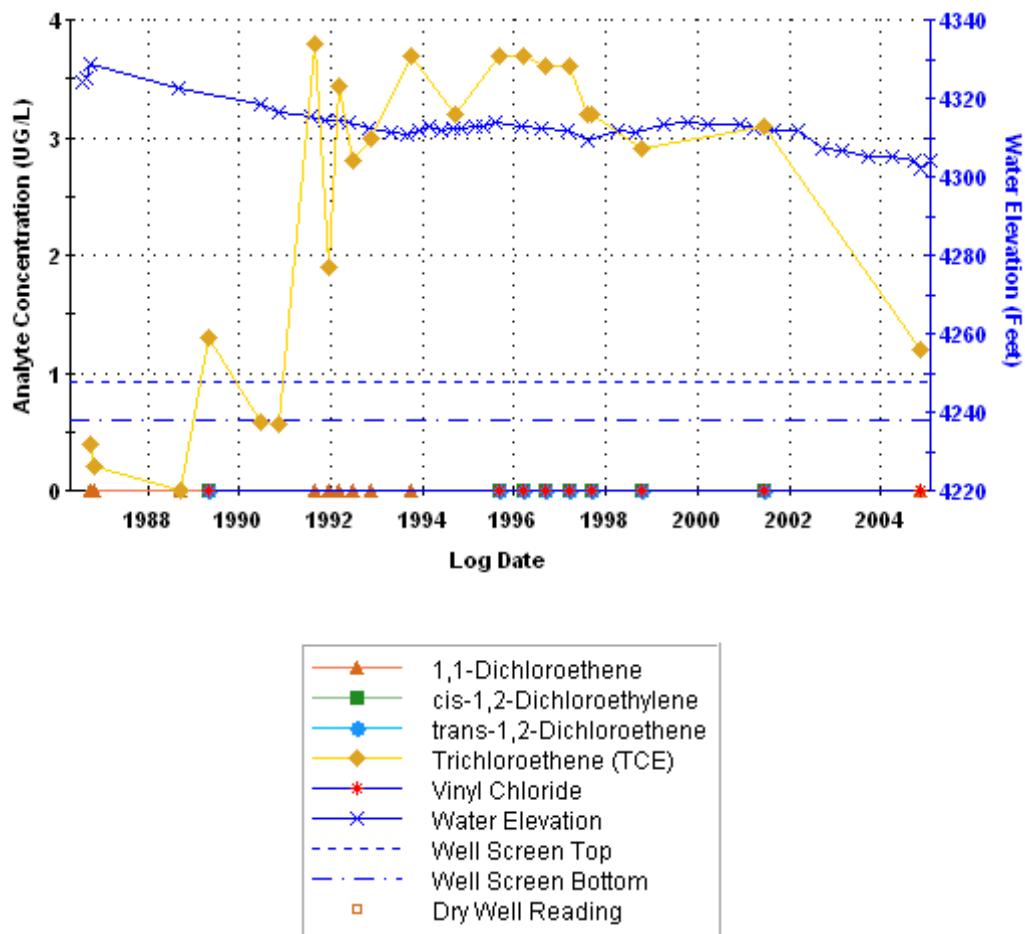
TEAD – Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location B-14A, Tooele Army Depot



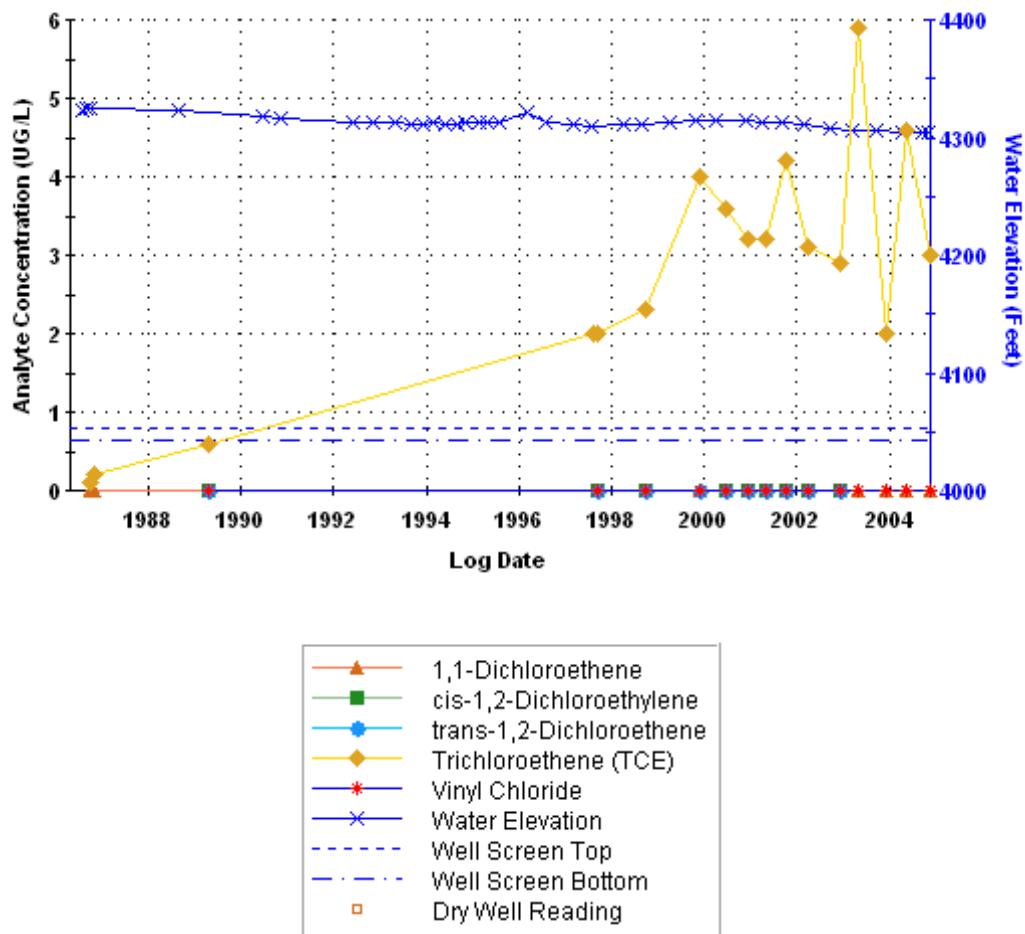
TEAD – Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location B-16, Tooele Army Depot



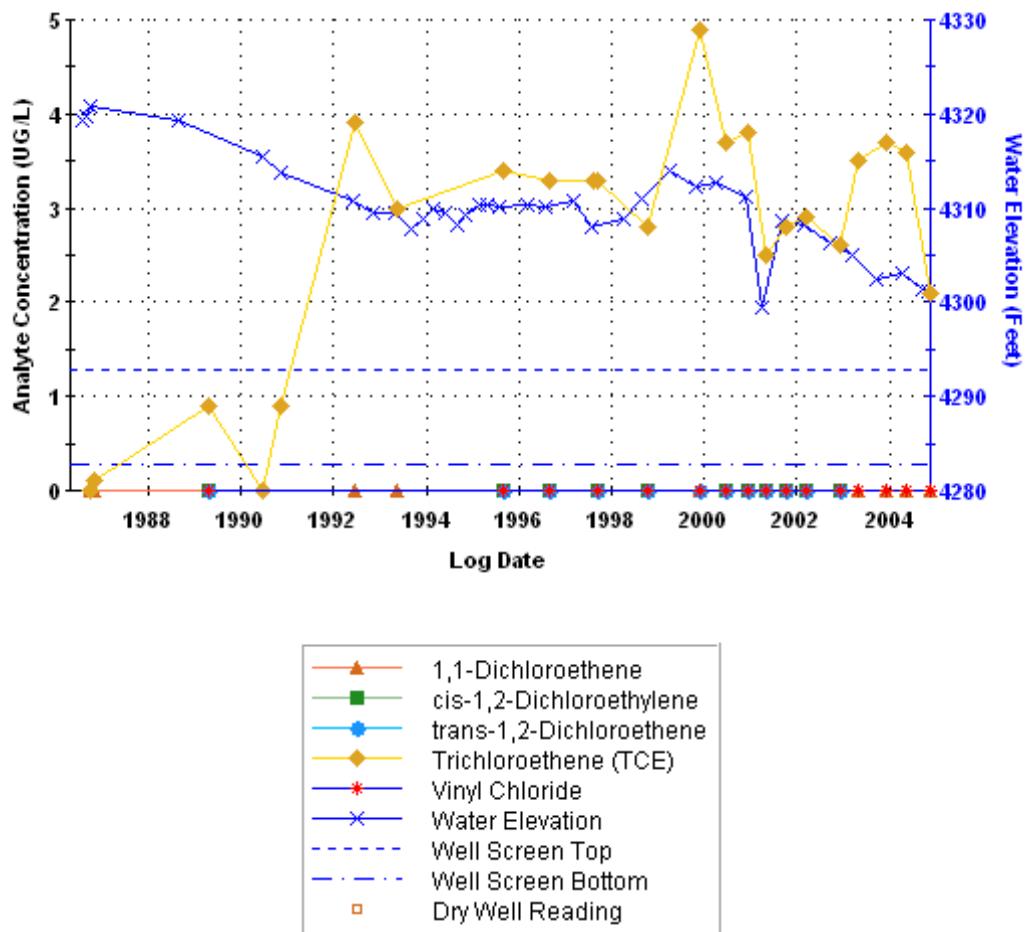
TEAD – Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location B-17, Tooele Army Depot



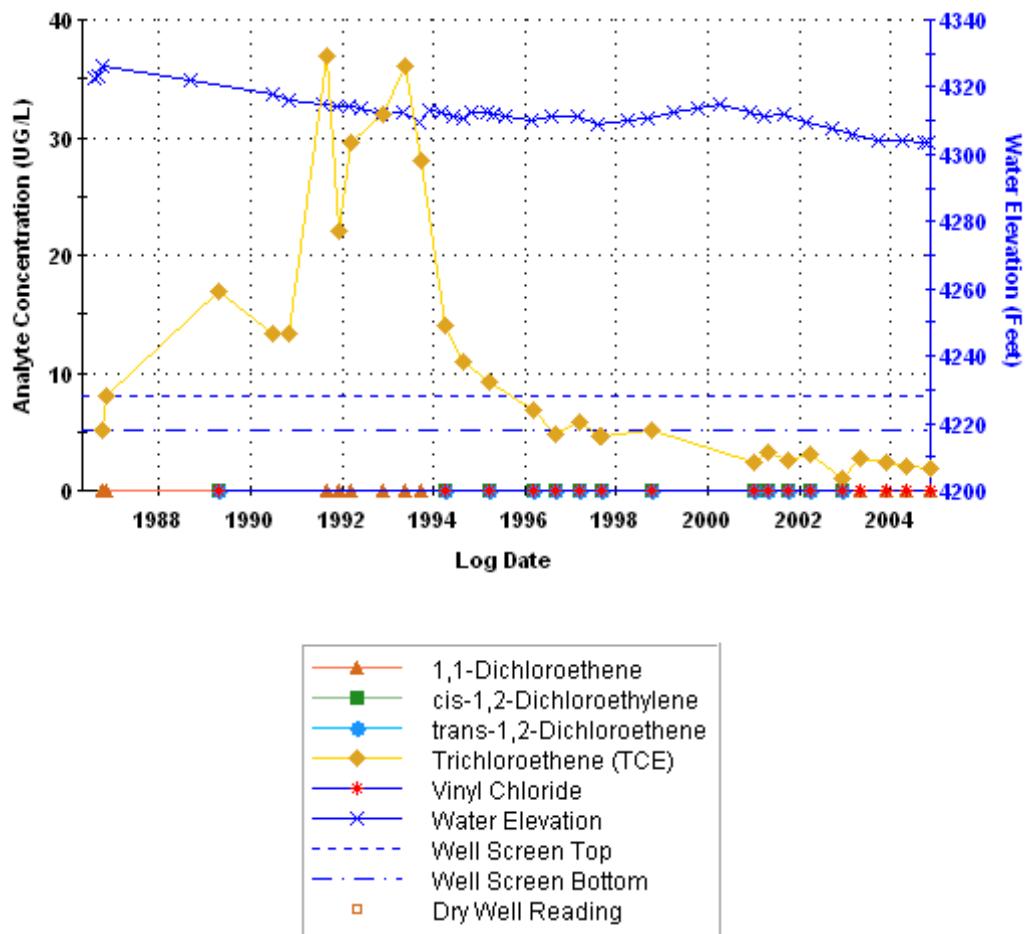
TEAD – Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location B-18, Tooele Army Depot



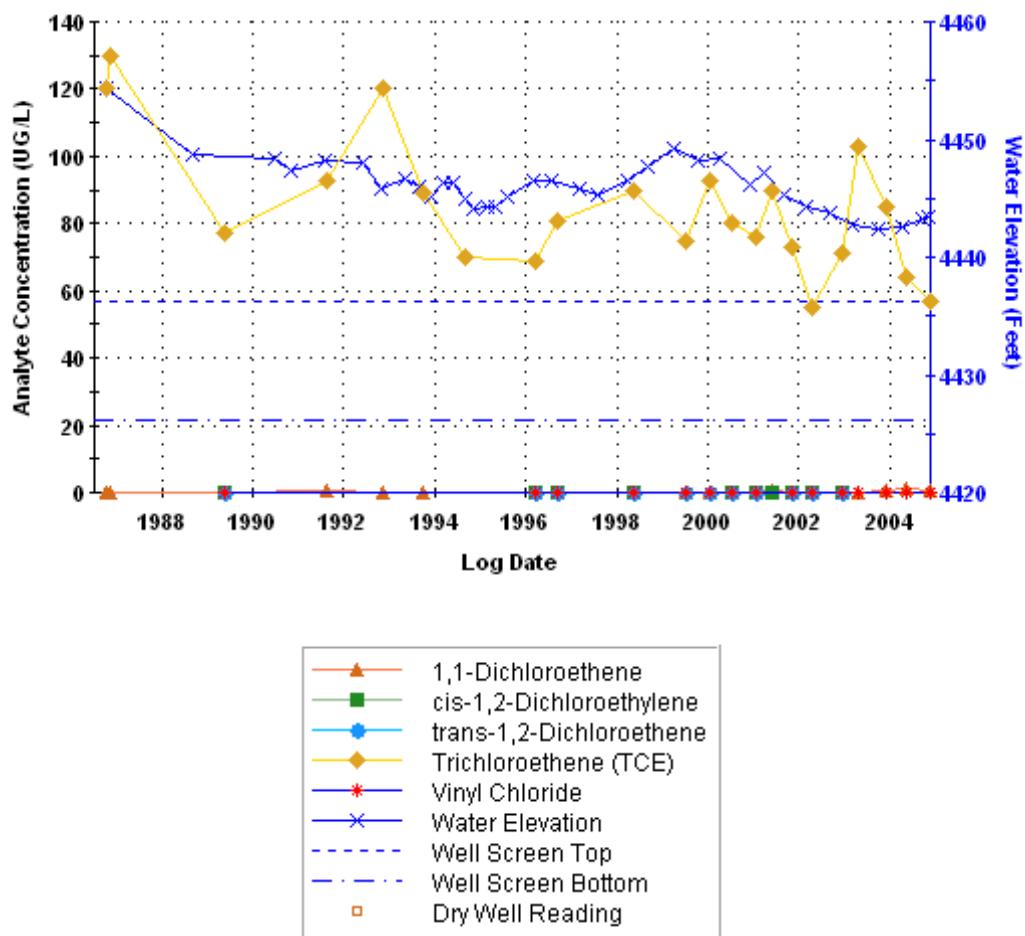
TEAD – Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location B-19, Tooele Army Depot



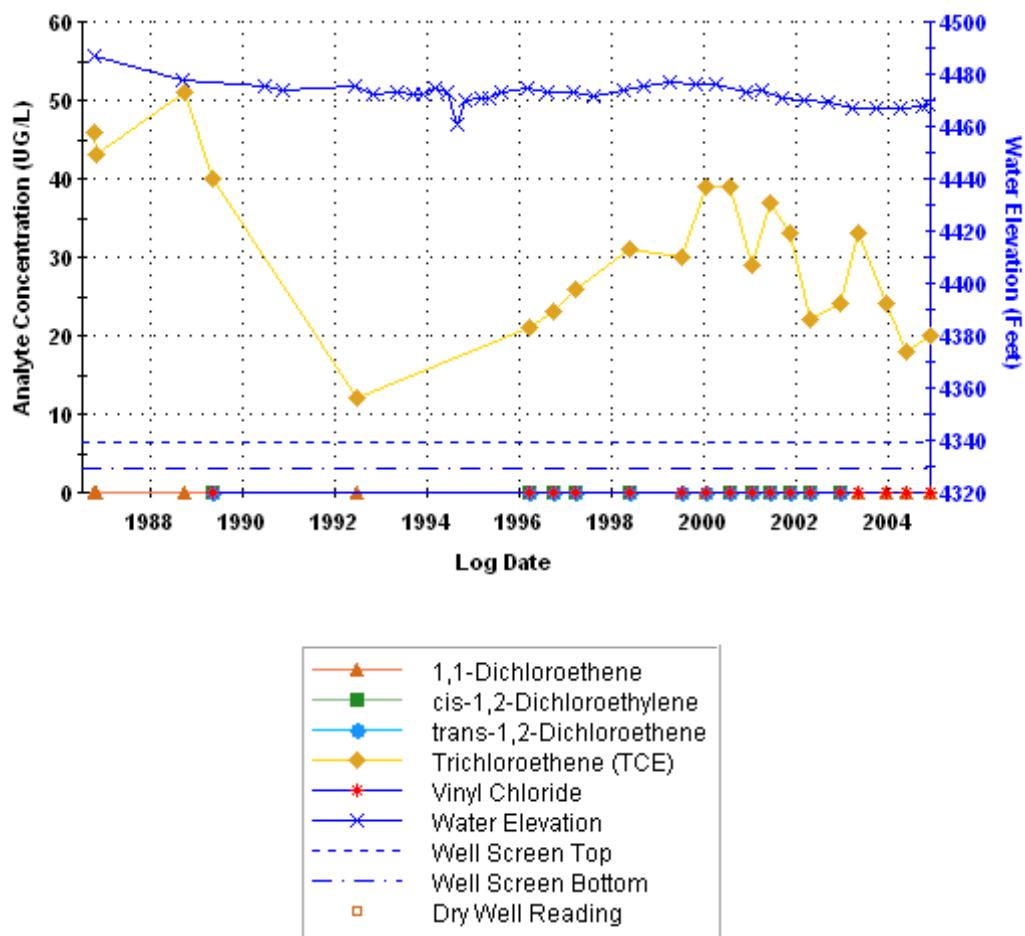
TEAD – Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location B-21, Tooele Army Depot



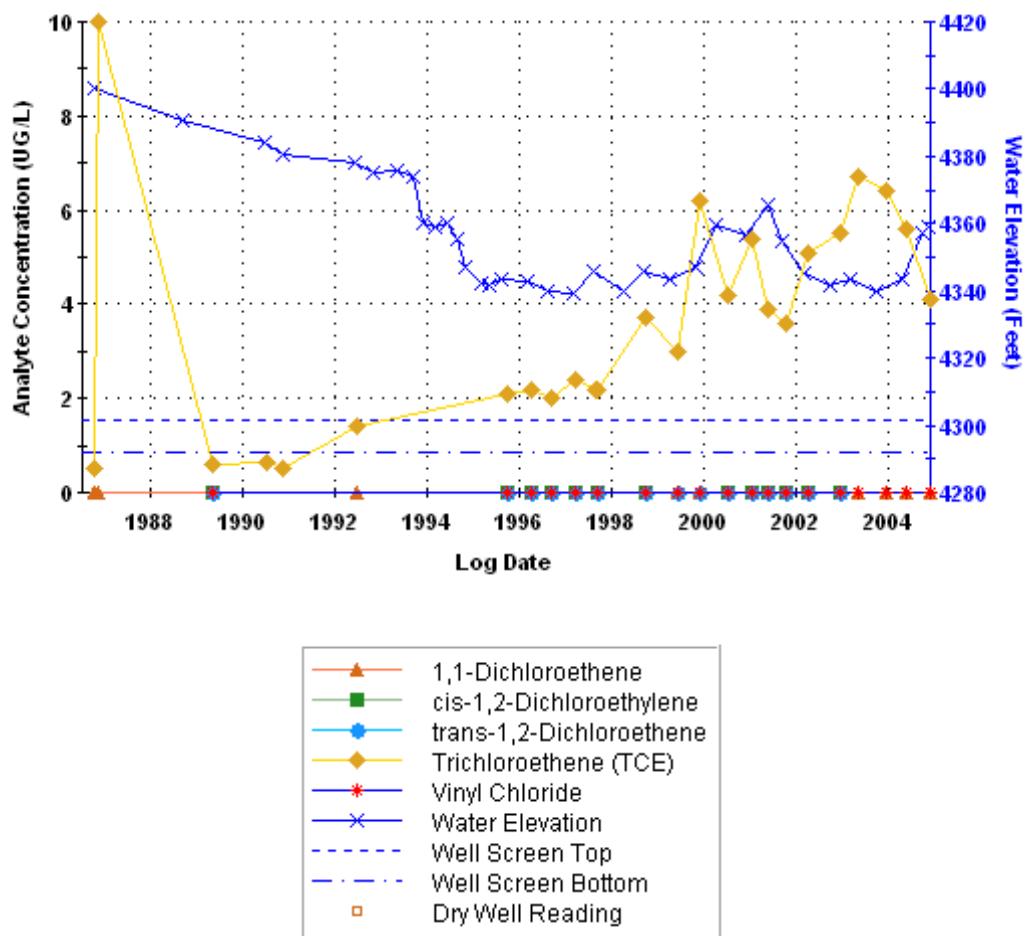
TEAD – Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location B-22, Tooele Army Depot



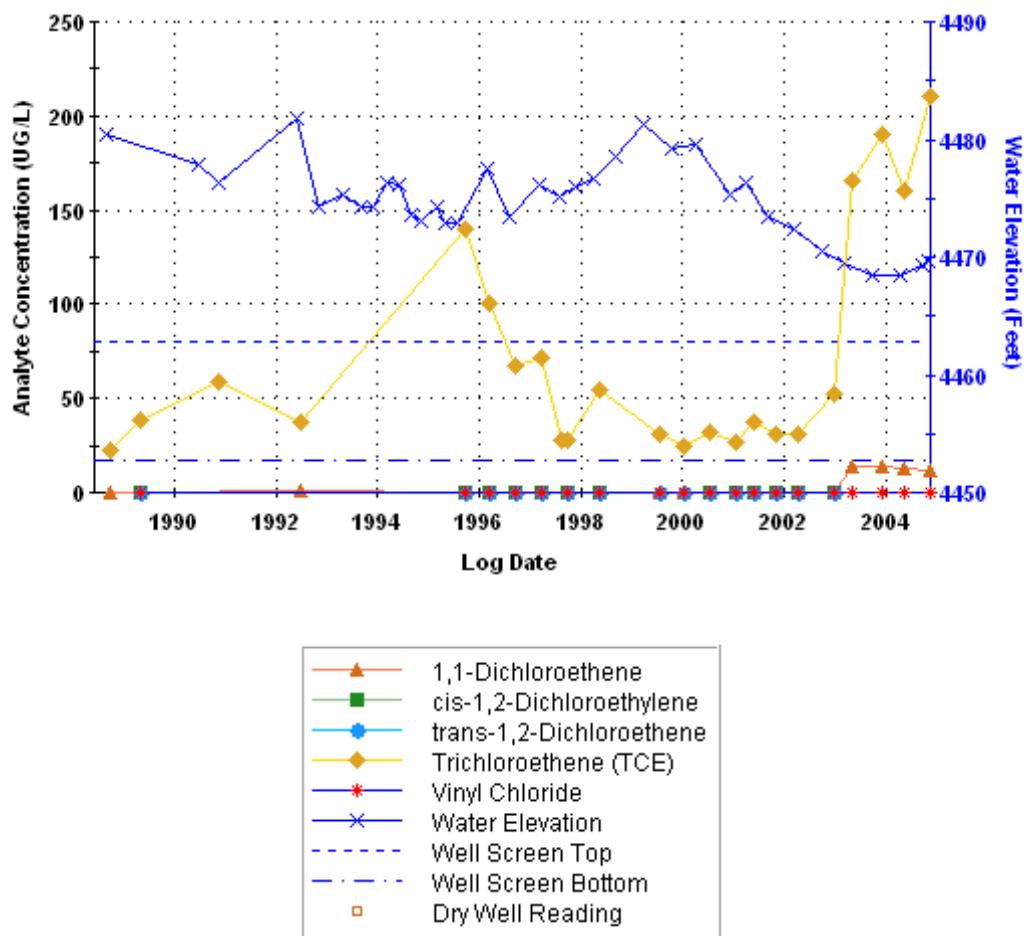
TEAD – Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location B-24, Tooele Army Depot



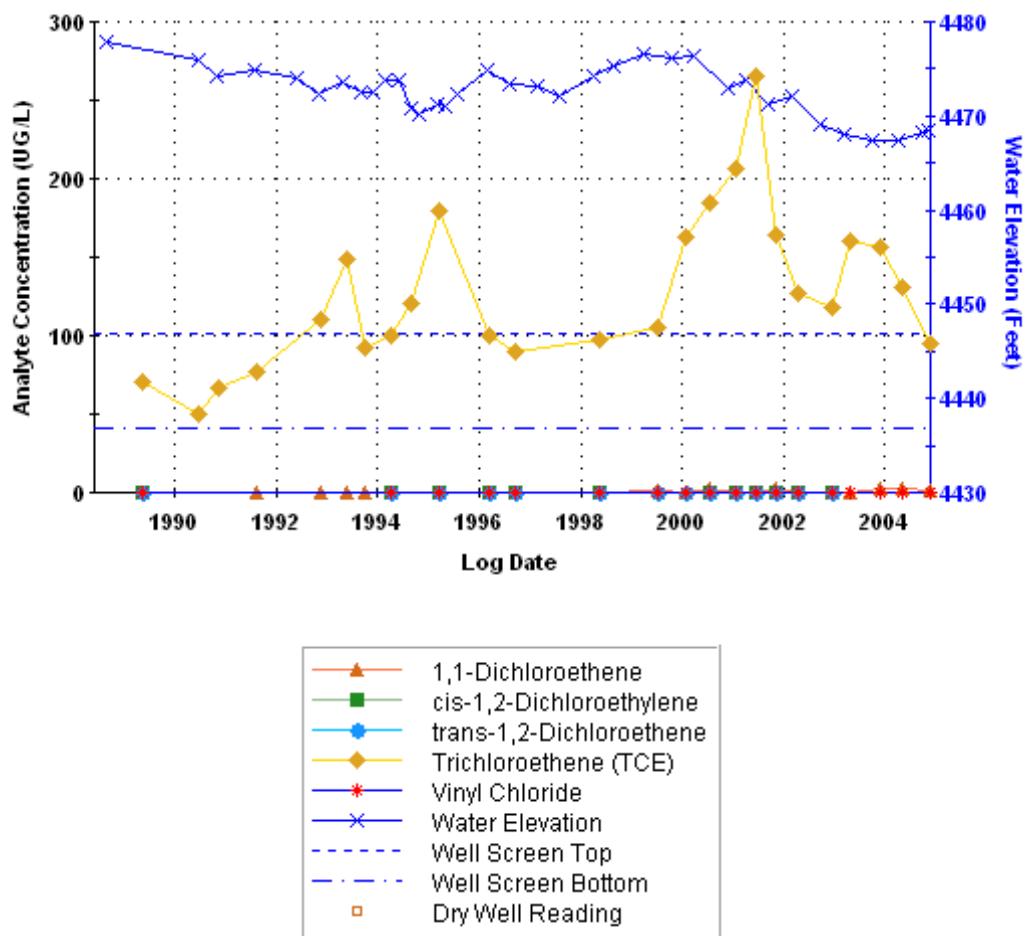
TEAD – Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location B-26, Tooele Army Depot



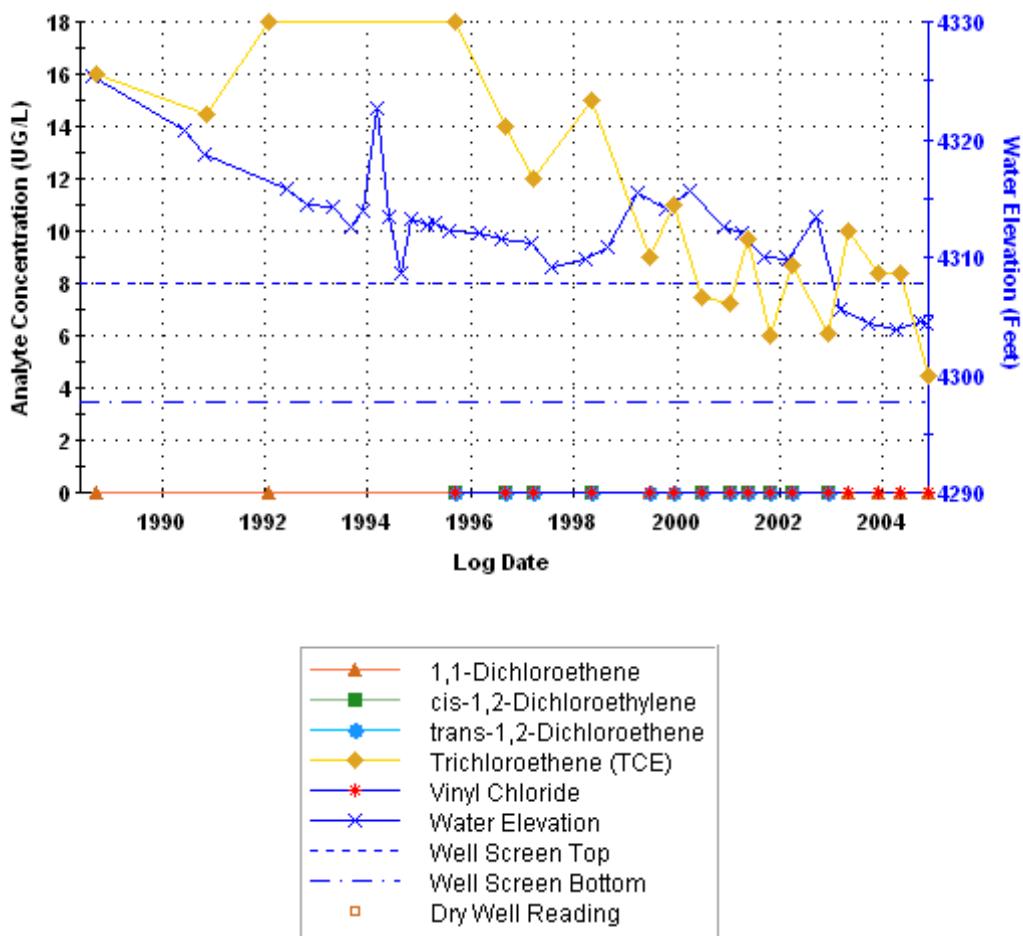
TEAD – Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location B-27, Tooele Army Depot



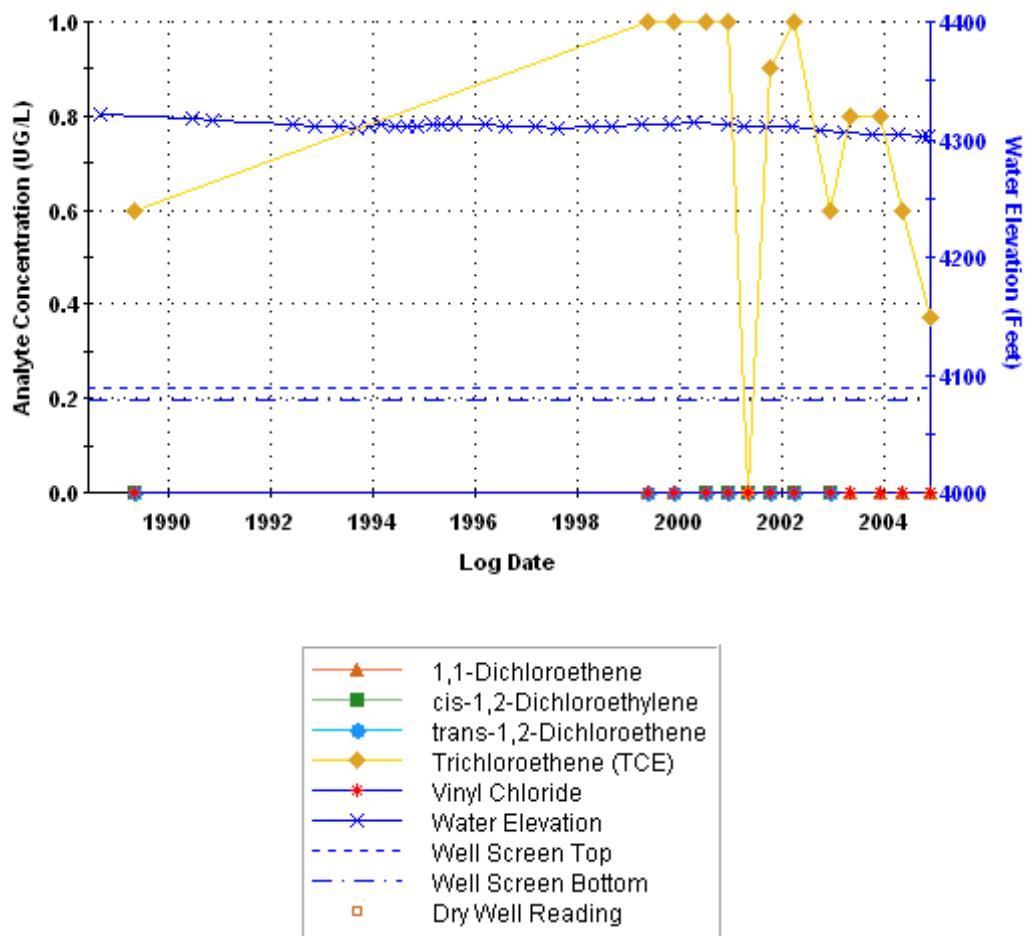
TEAD – Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location B-30, Tooele Army Depot



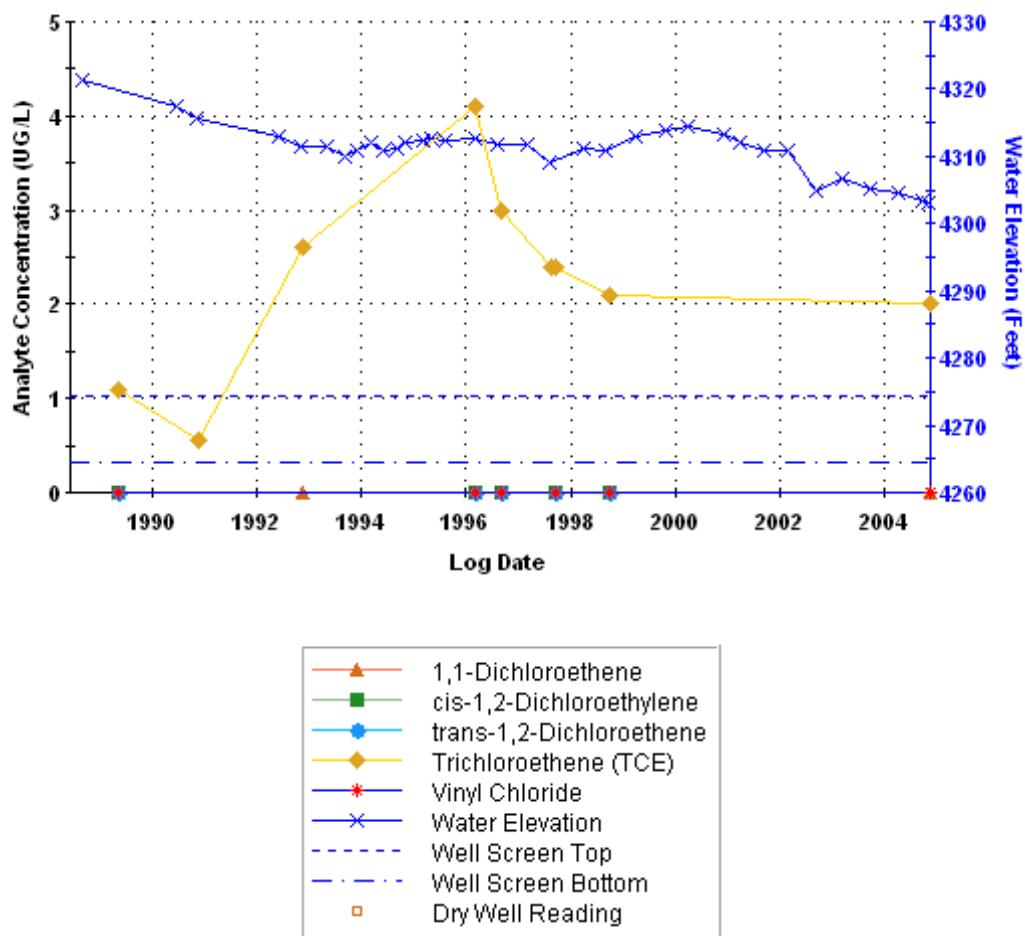
TEAD – Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location B-31, Tooele Army Depot



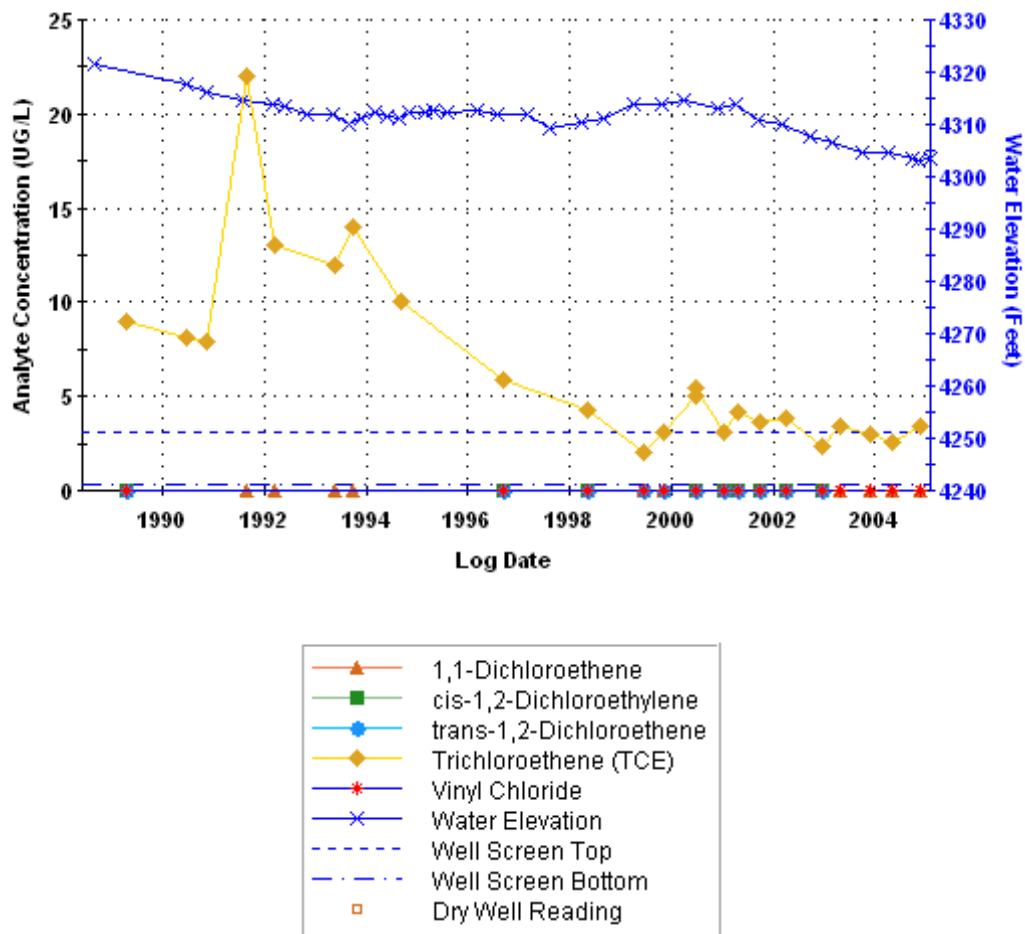
TEAD – Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location B-32, Tooele Army Depot



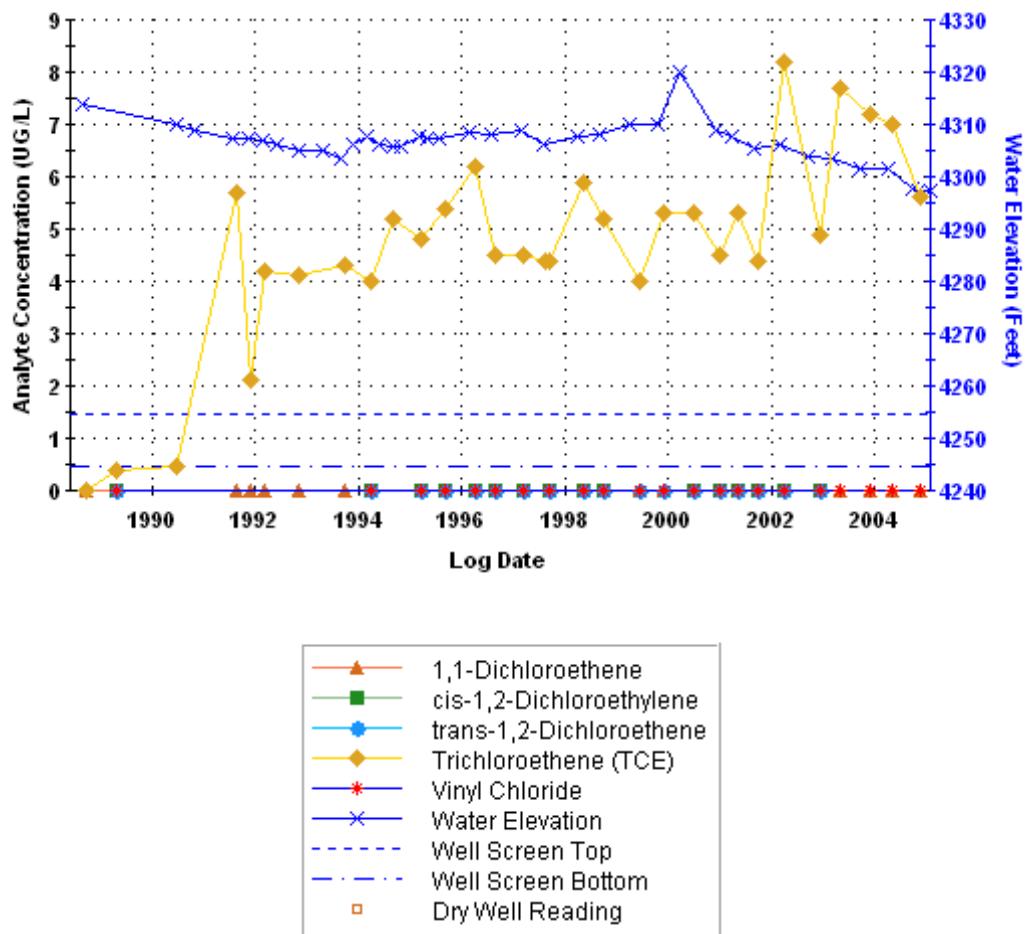
TEAD – Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location B-34, Tooele Army Depot



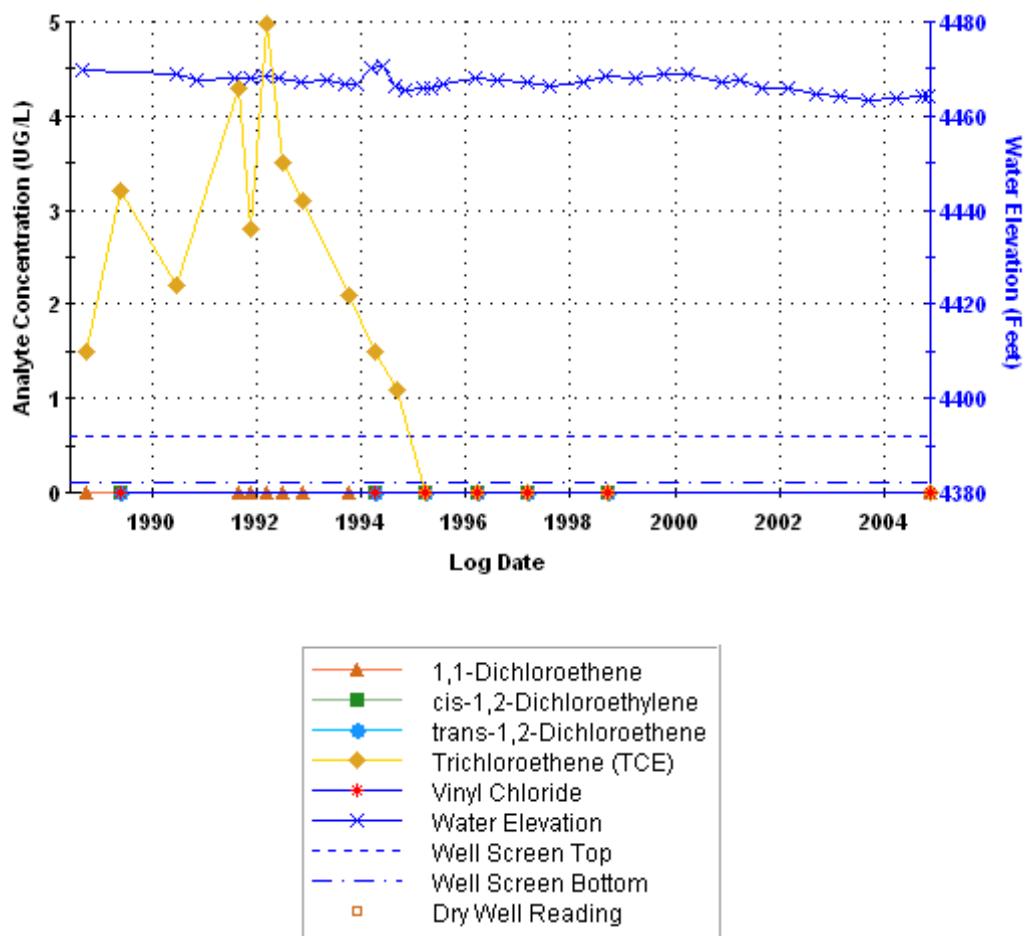
TEAD – Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location B-35, Tooele Army Depot



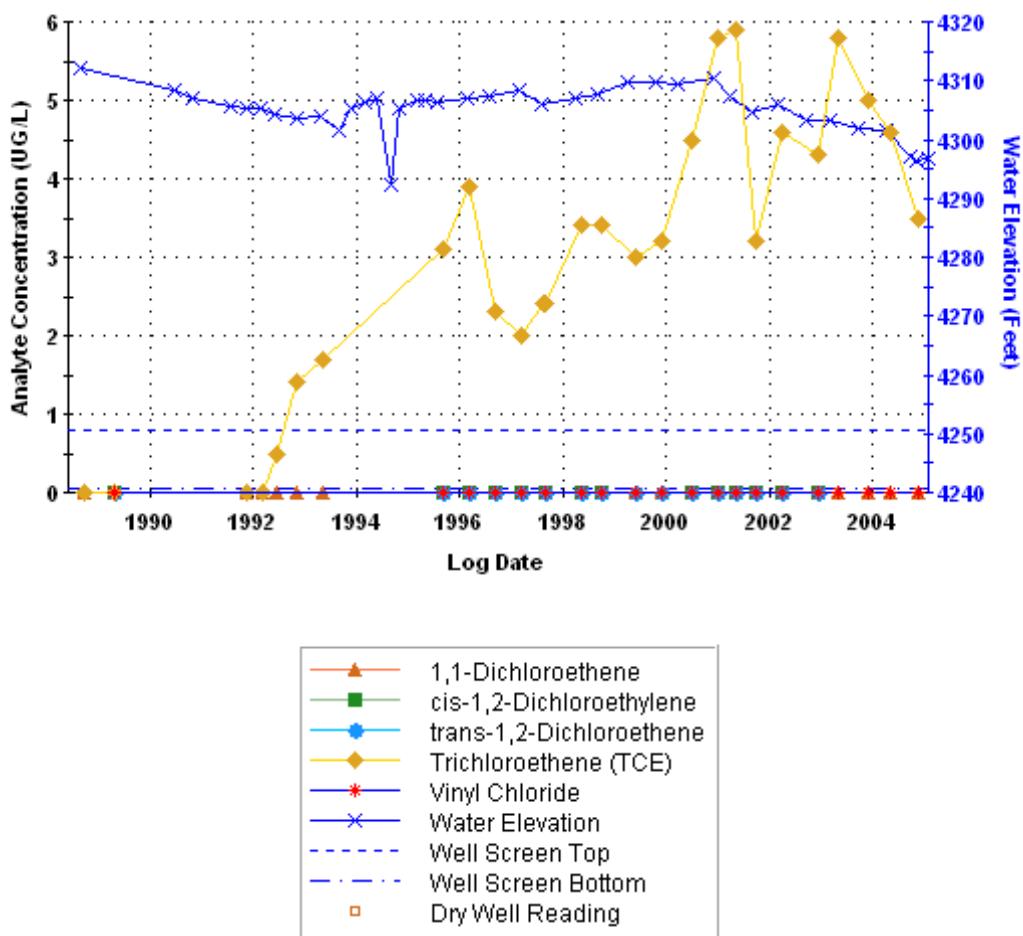
TEAD – Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location B-36, Tooele Army Depot



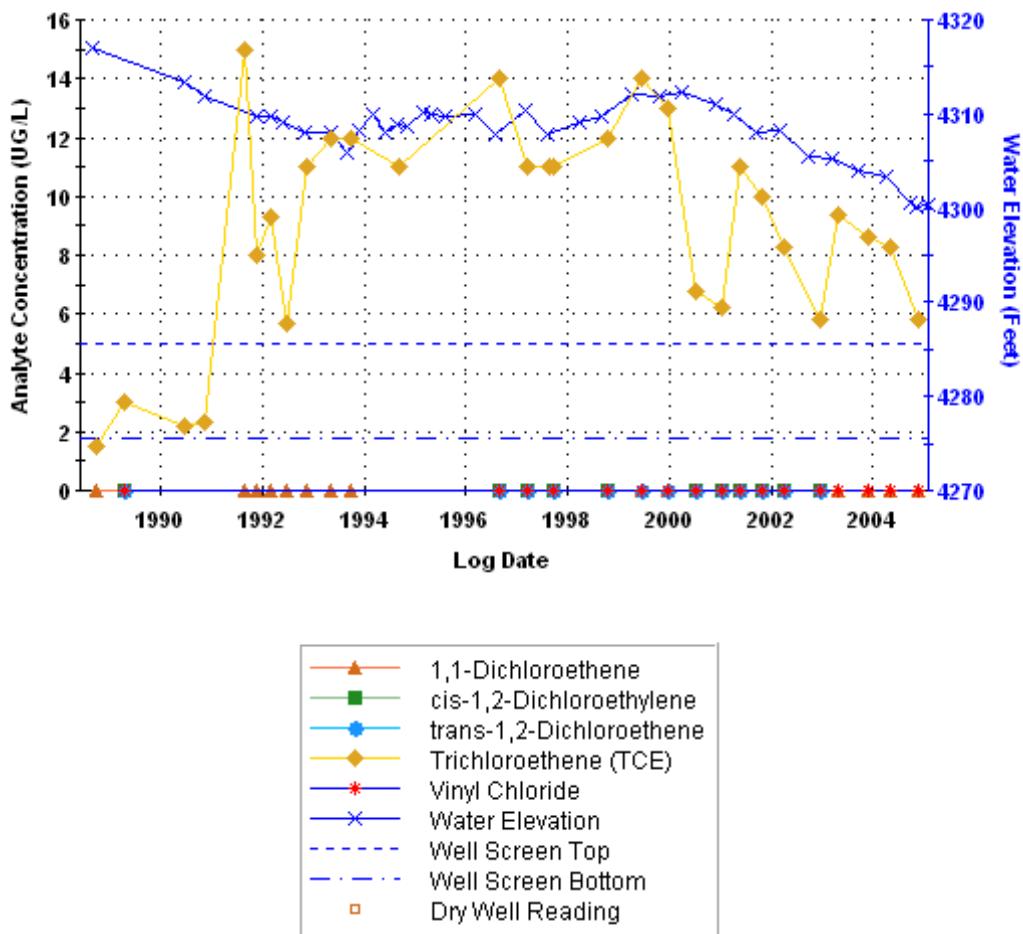
TEAD – Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location B-37, Tooele Army Depot



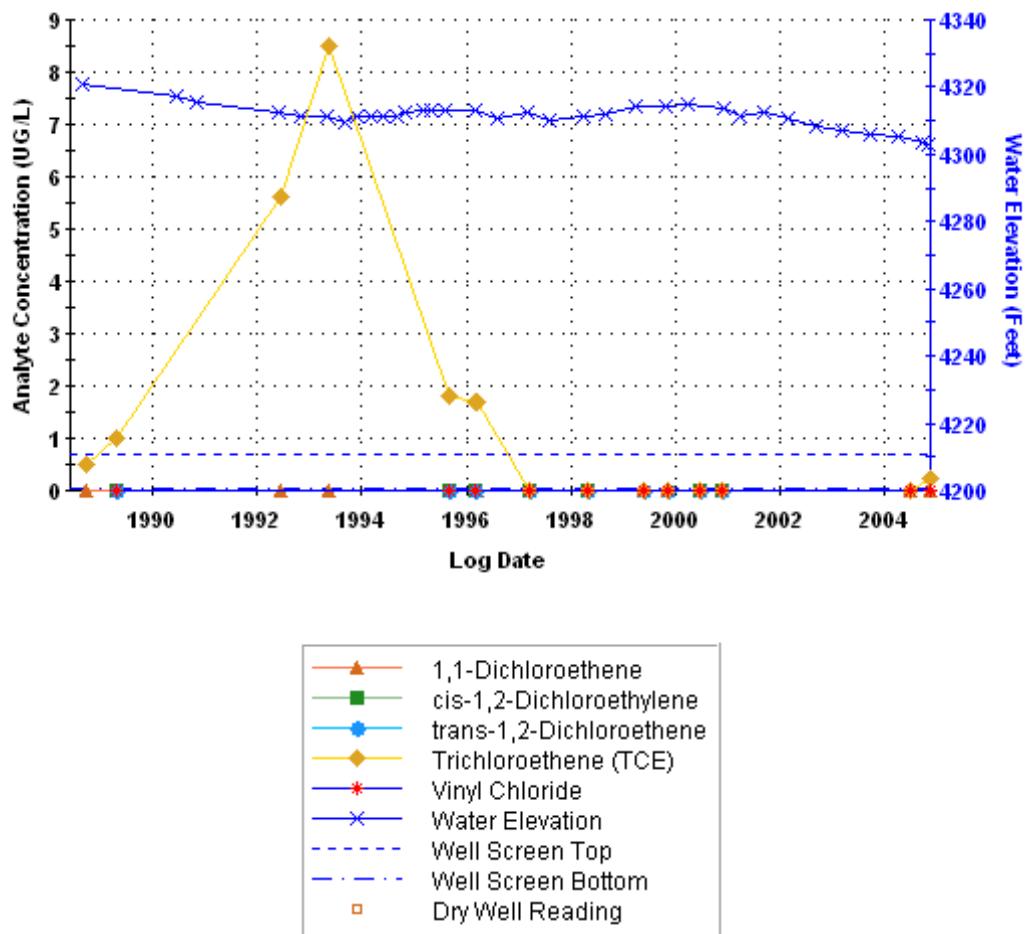
TEAD – Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location B-40, Tooele Army Depot



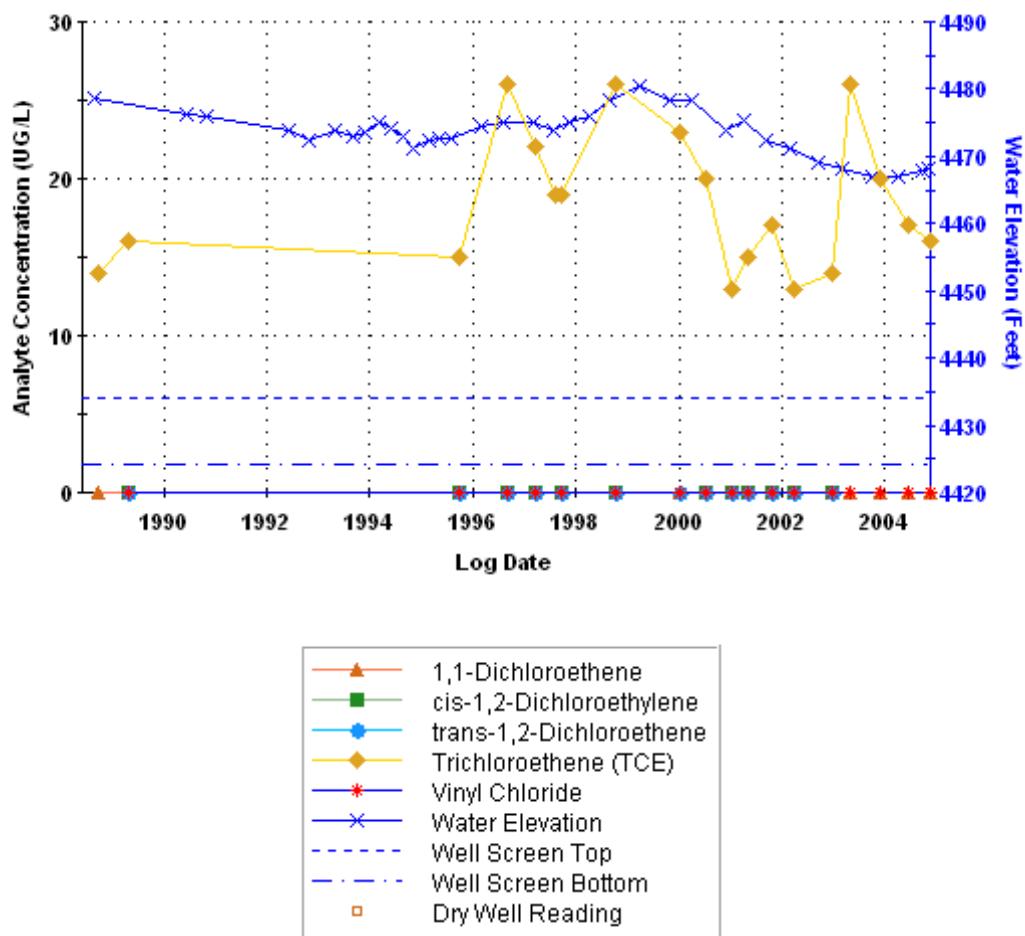
TEAD – Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location B-50, Tooele Army Depot



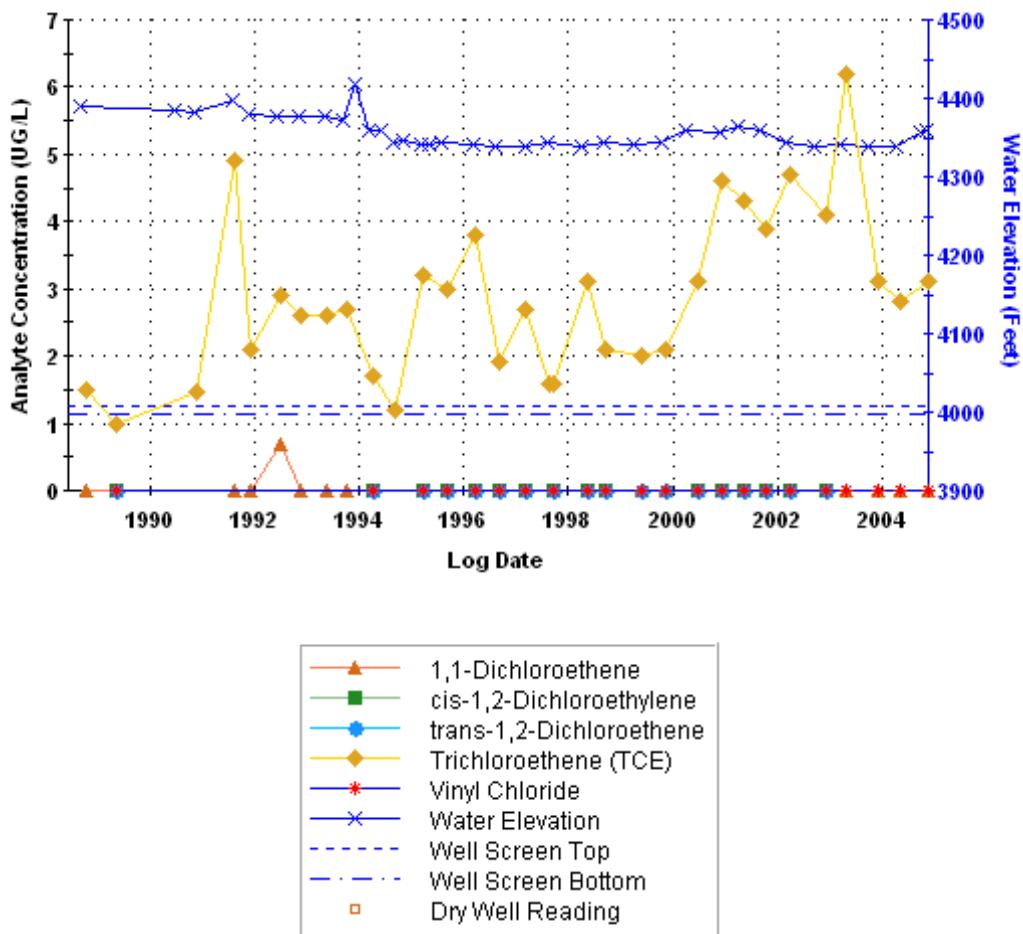
TEAD – Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location B-54, Tooele Army Depot



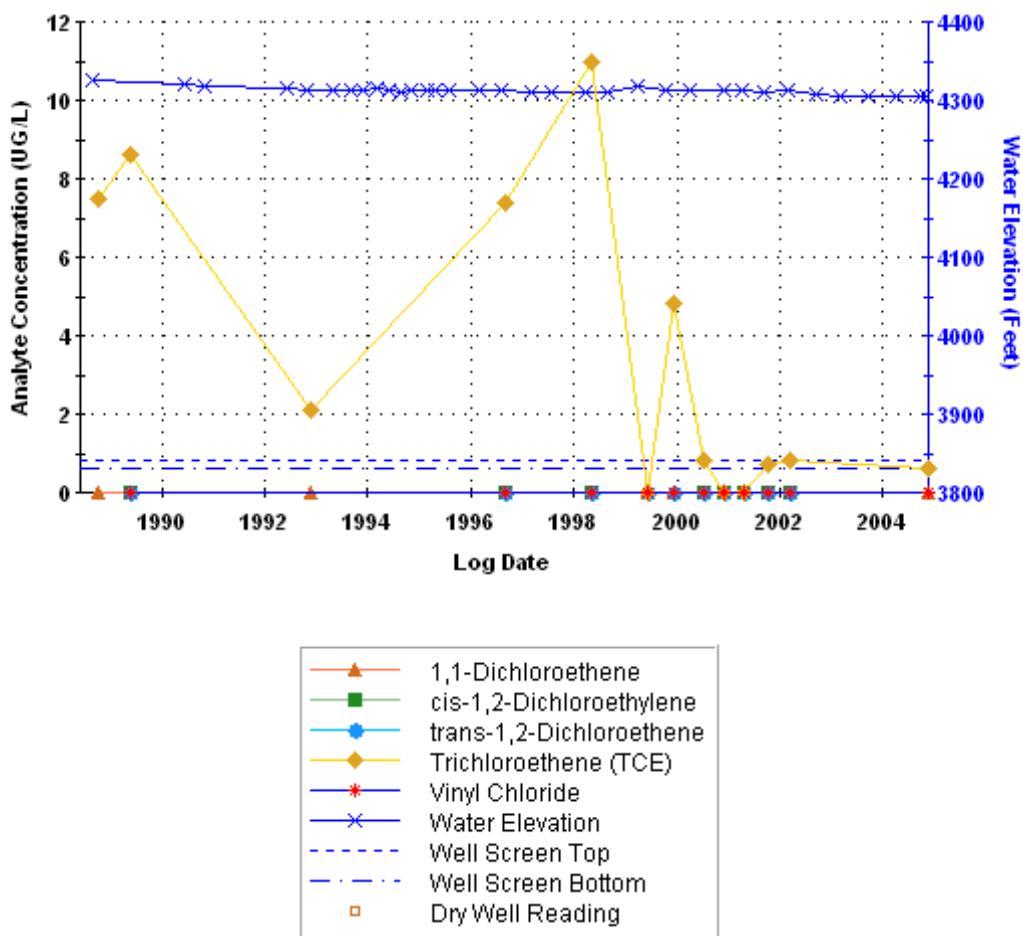
TEAD - Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location B-56, Tooele Army Depot



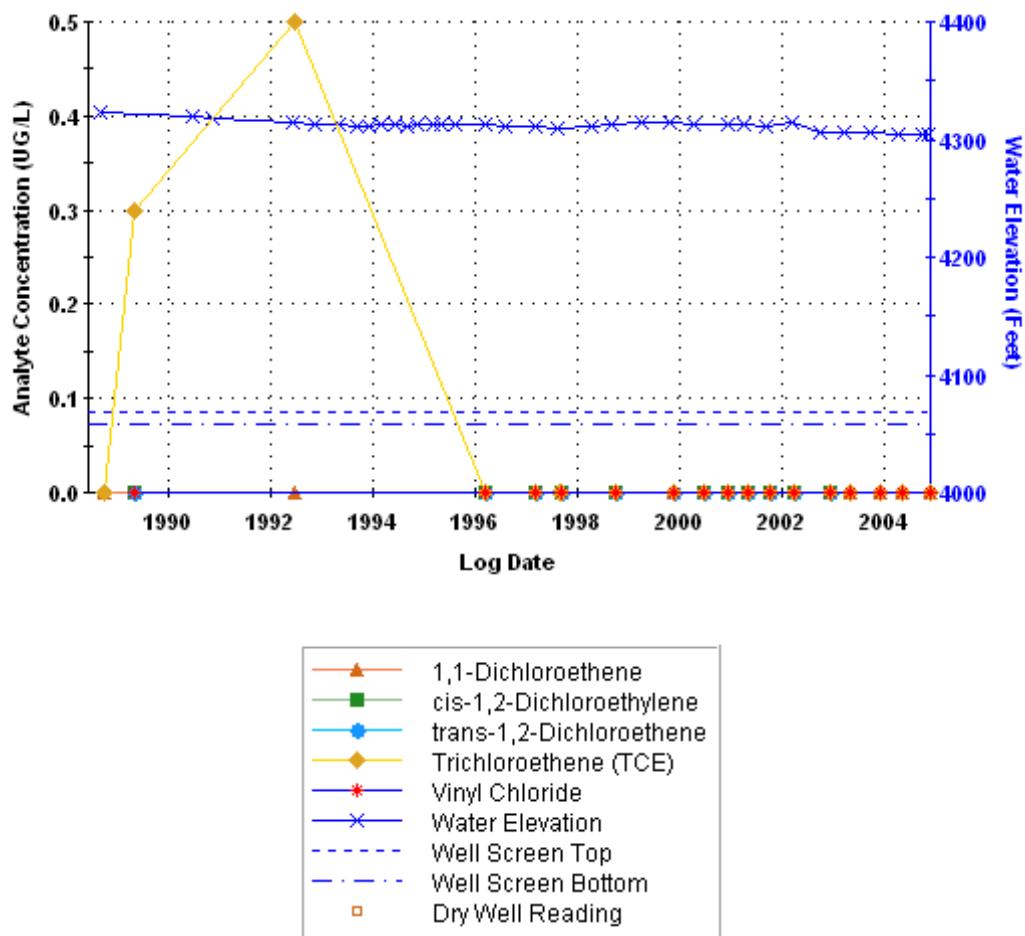
TEAD - Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location B-59, Tooele Army Depot

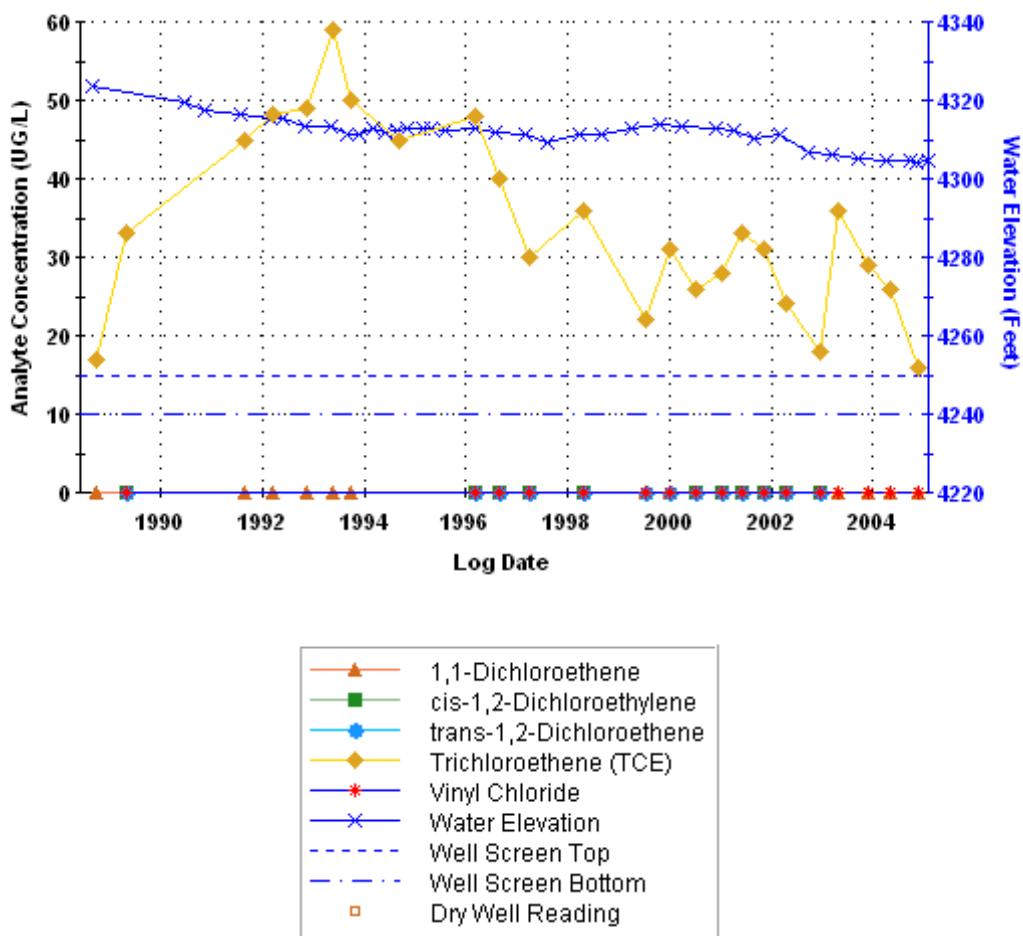


TEAD - Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location B-61, Tooele Army Depot

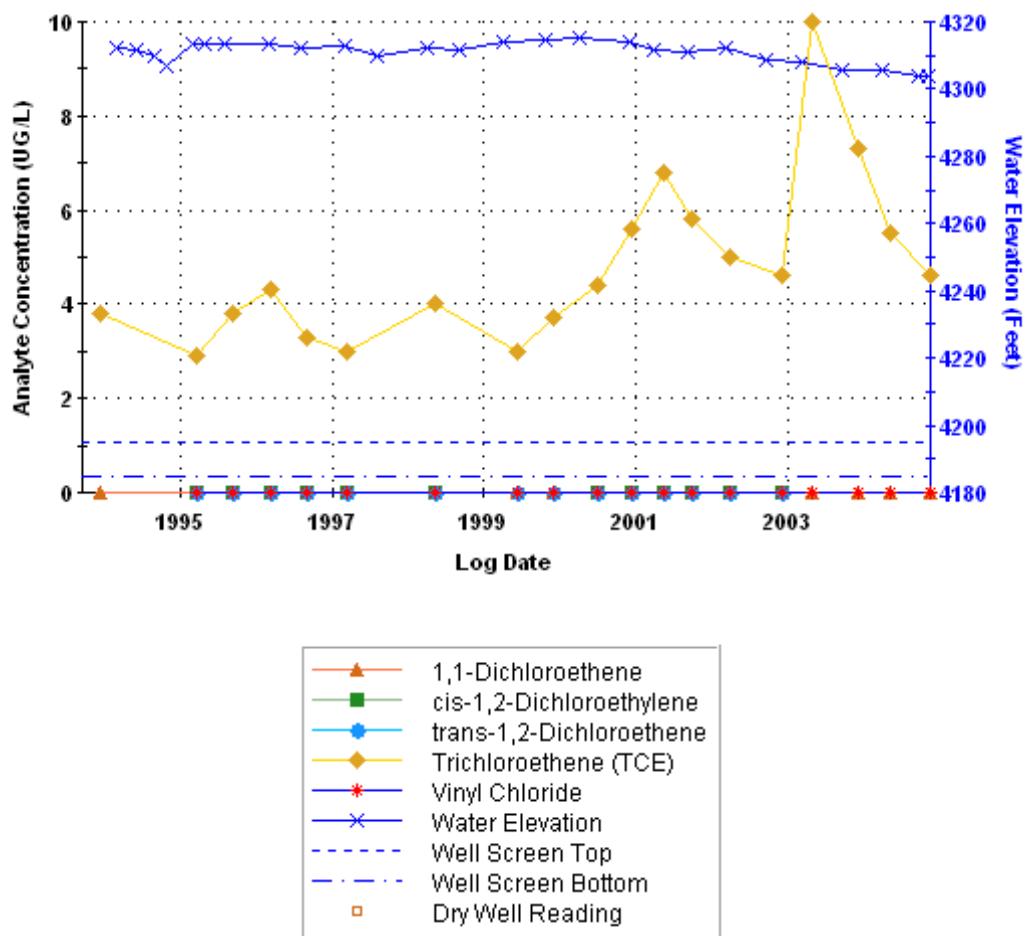


TCE Breakdown Products
Location B-62, Tooele Army Depot



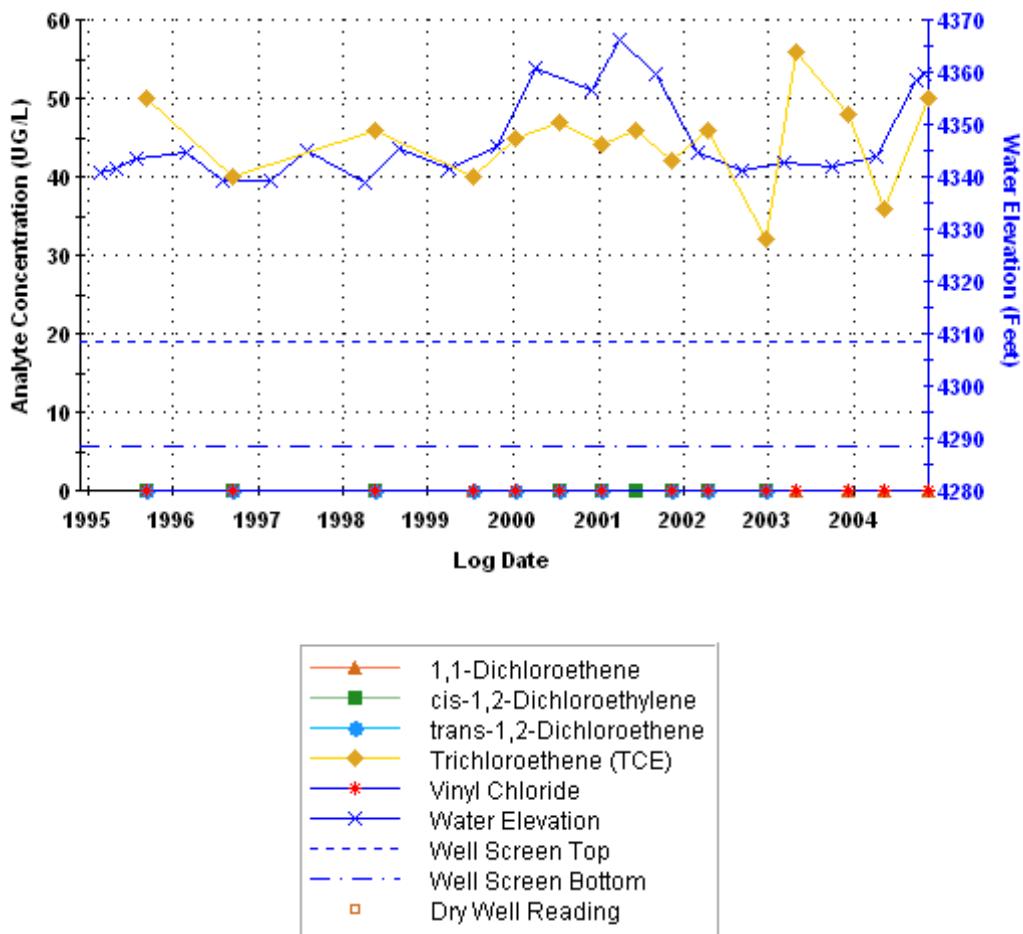
TEAD - Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location C-08, Tooele Army Depot



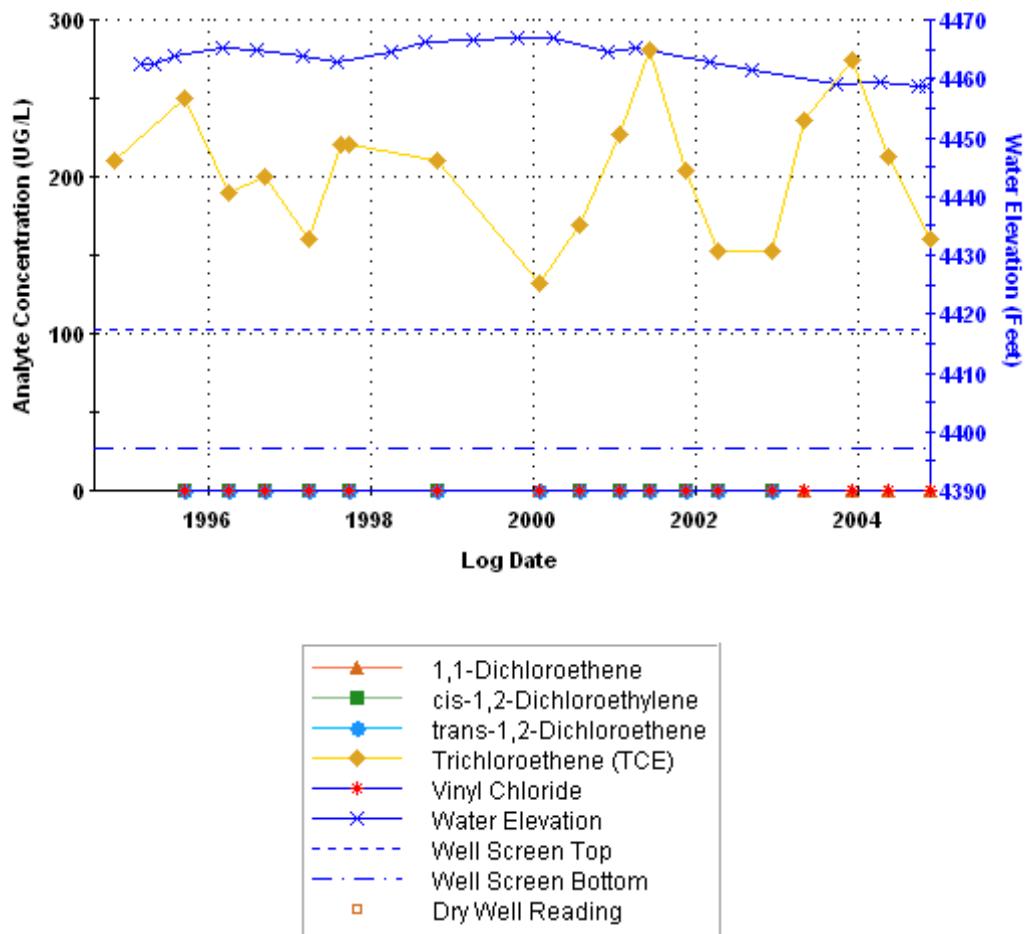
TEAD - Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location C-09, Tooele Army Depot



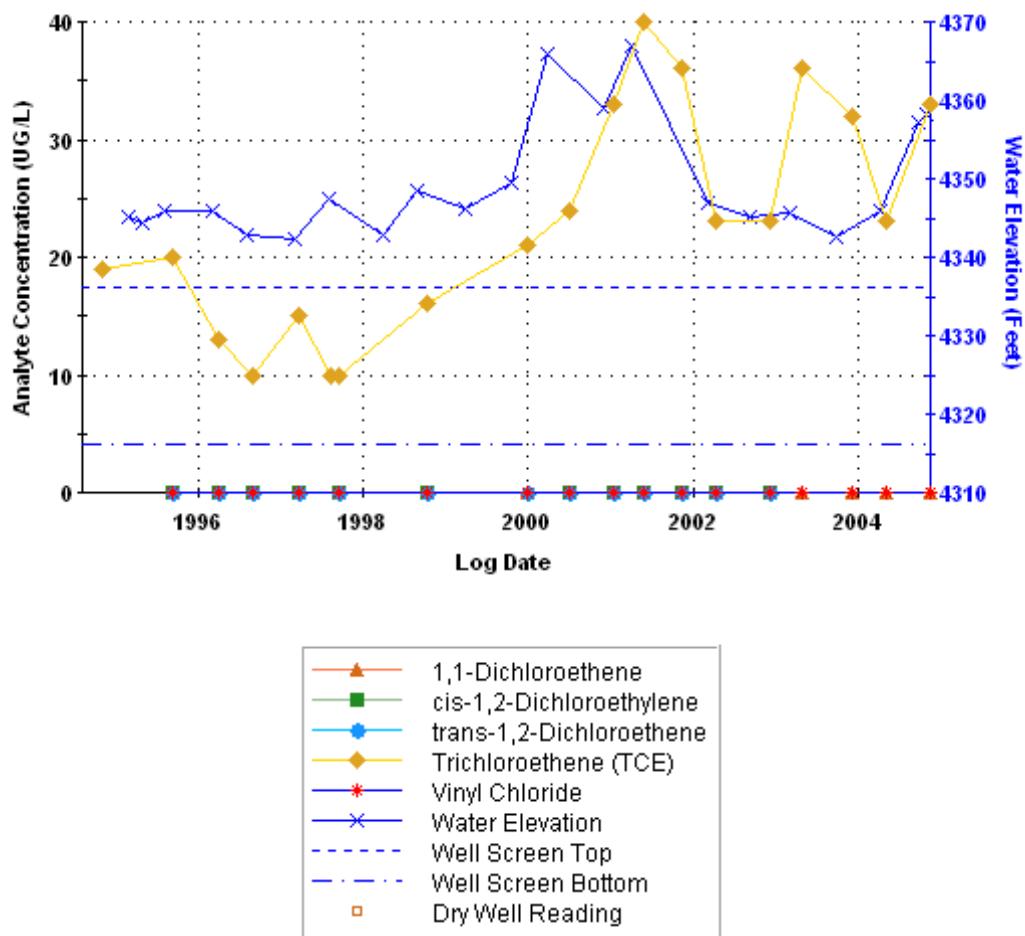
TEAD - Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location C-10, Tooele Army Depot



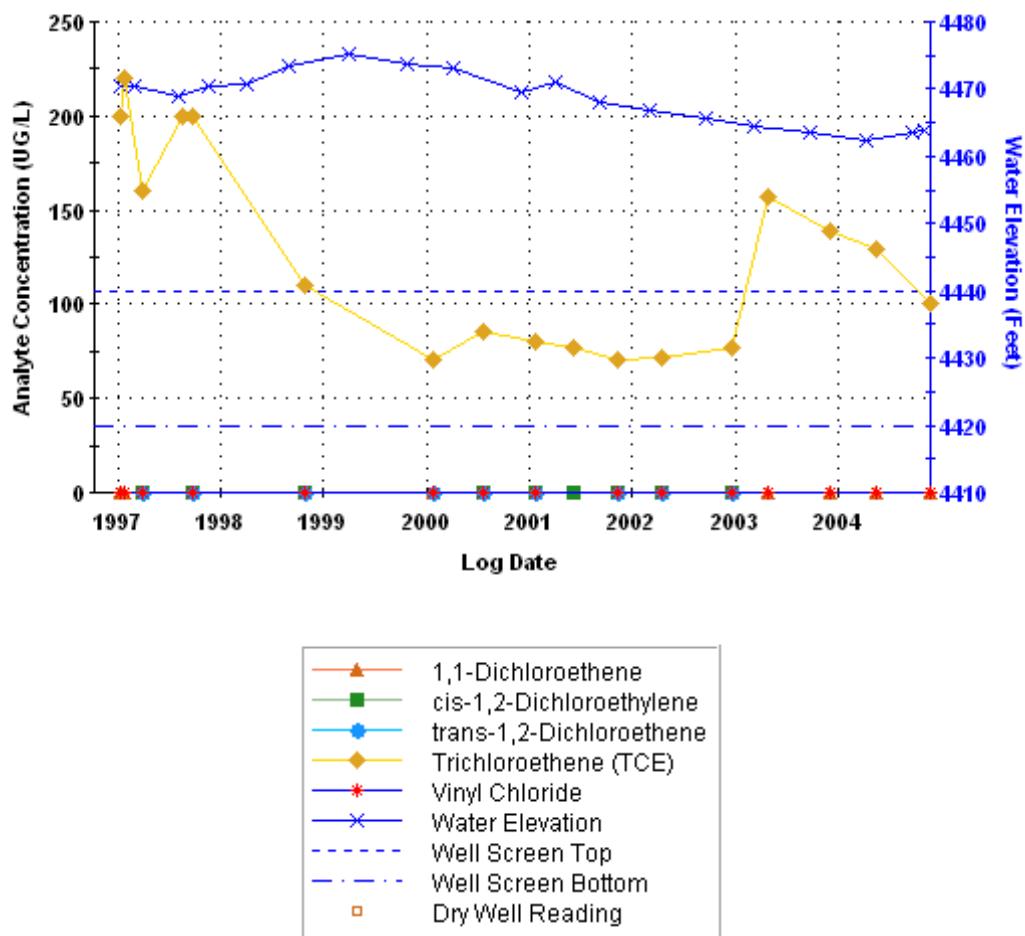
TEAD - Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location C-11, Tooele Army Depot



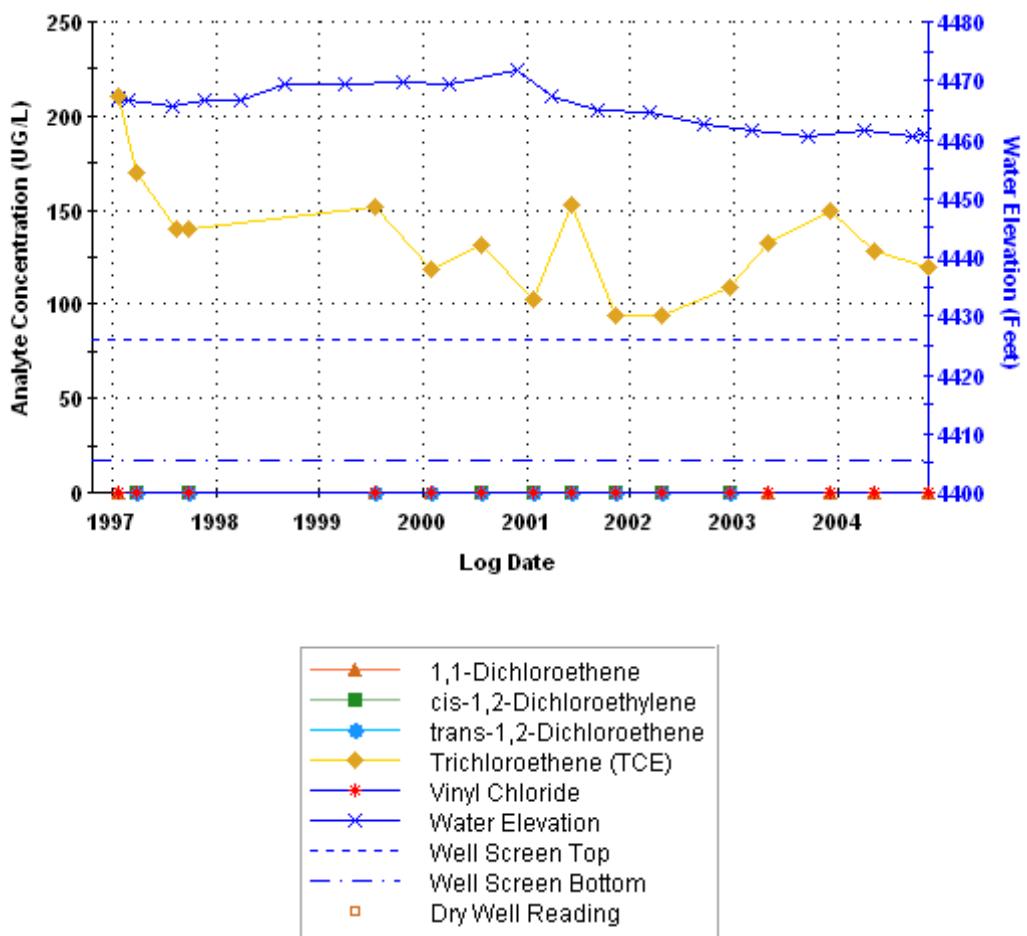
TEAD - Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location C-12, Tooele Army Depot



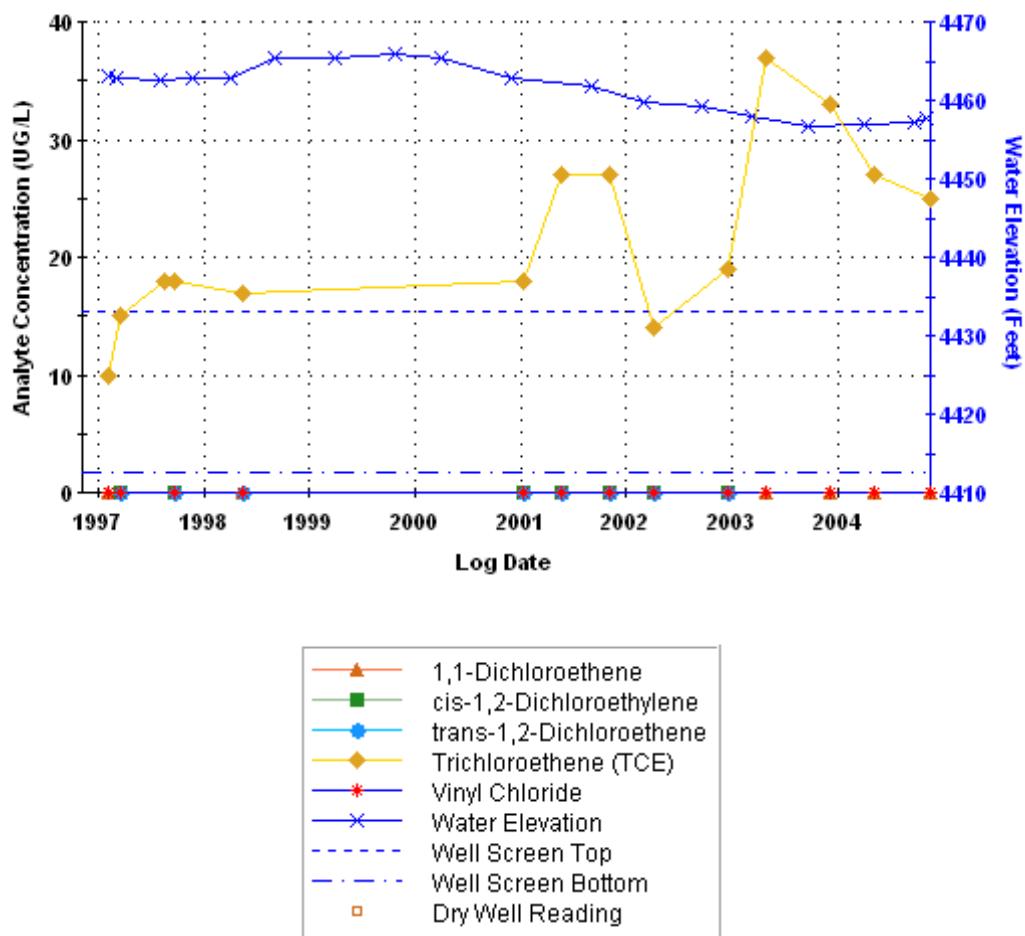
TEAD - Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location C-13, Tooele Army Depot



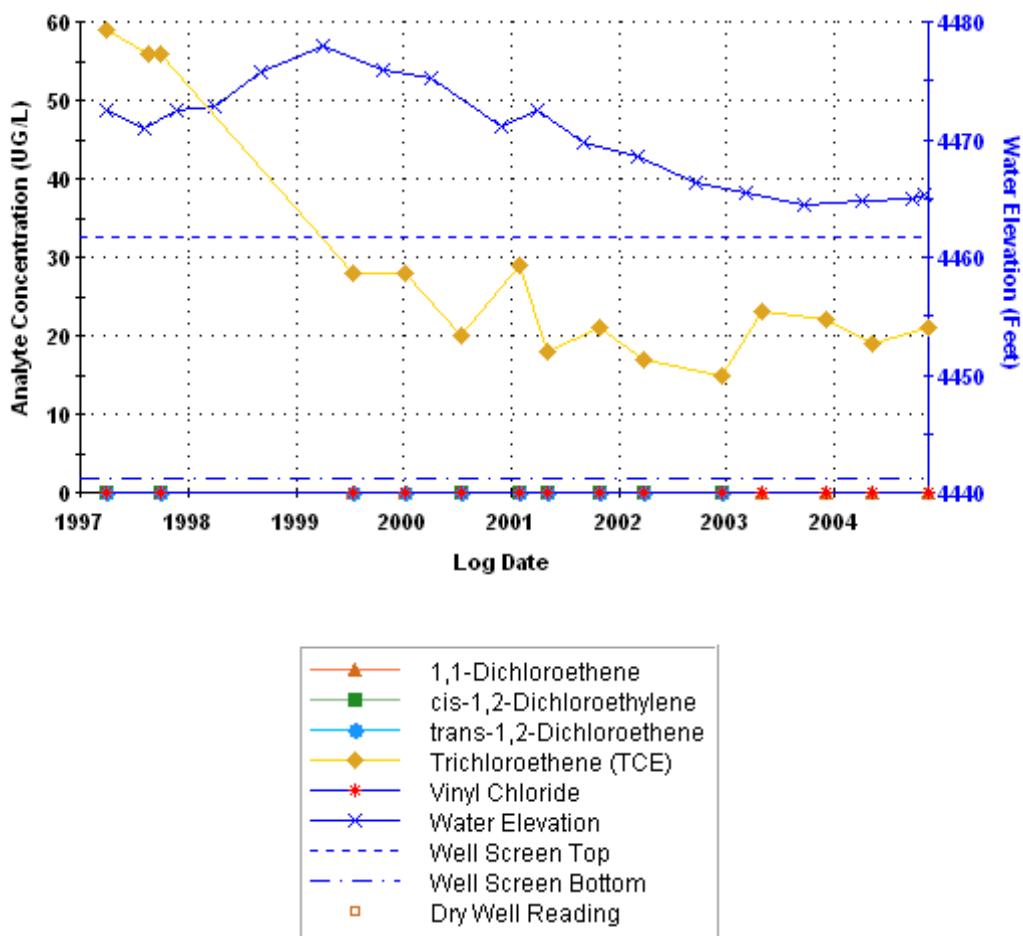
TEAD - Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location C-14, Tooele Army Depot



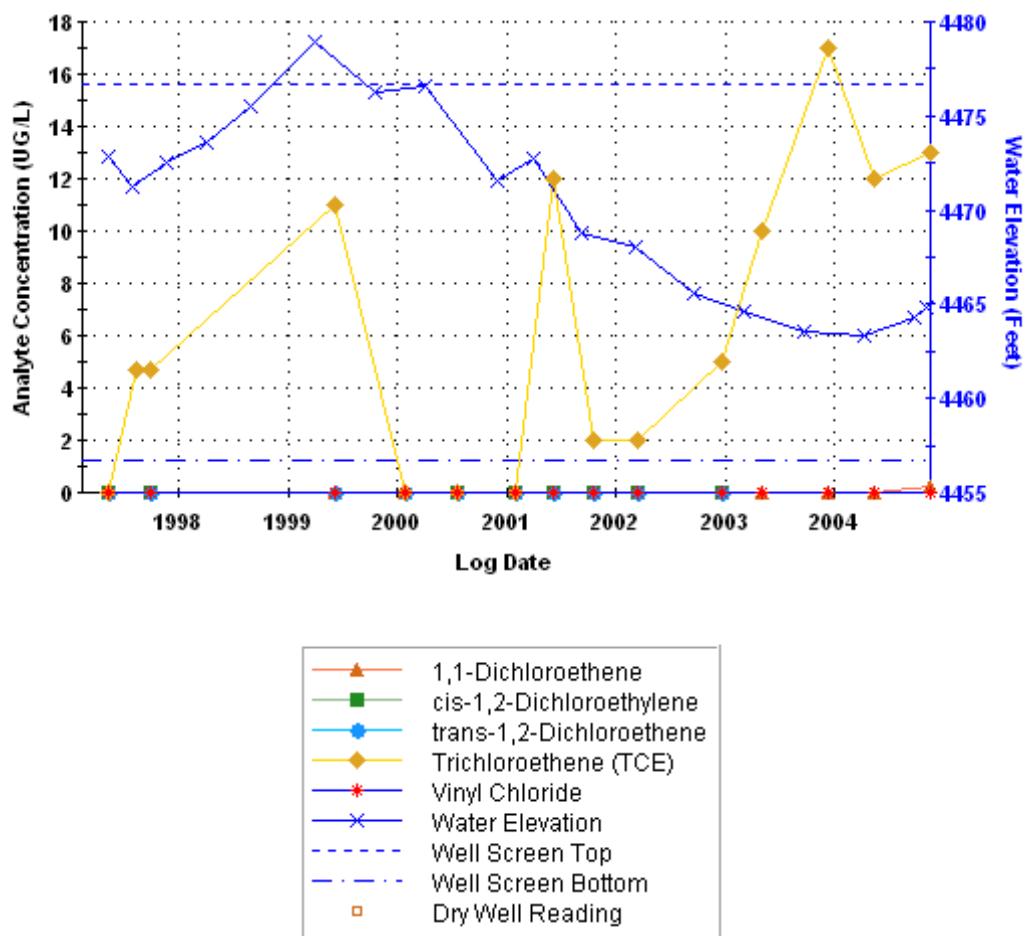
TEAD - Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location C-15, Tooele Army Depot



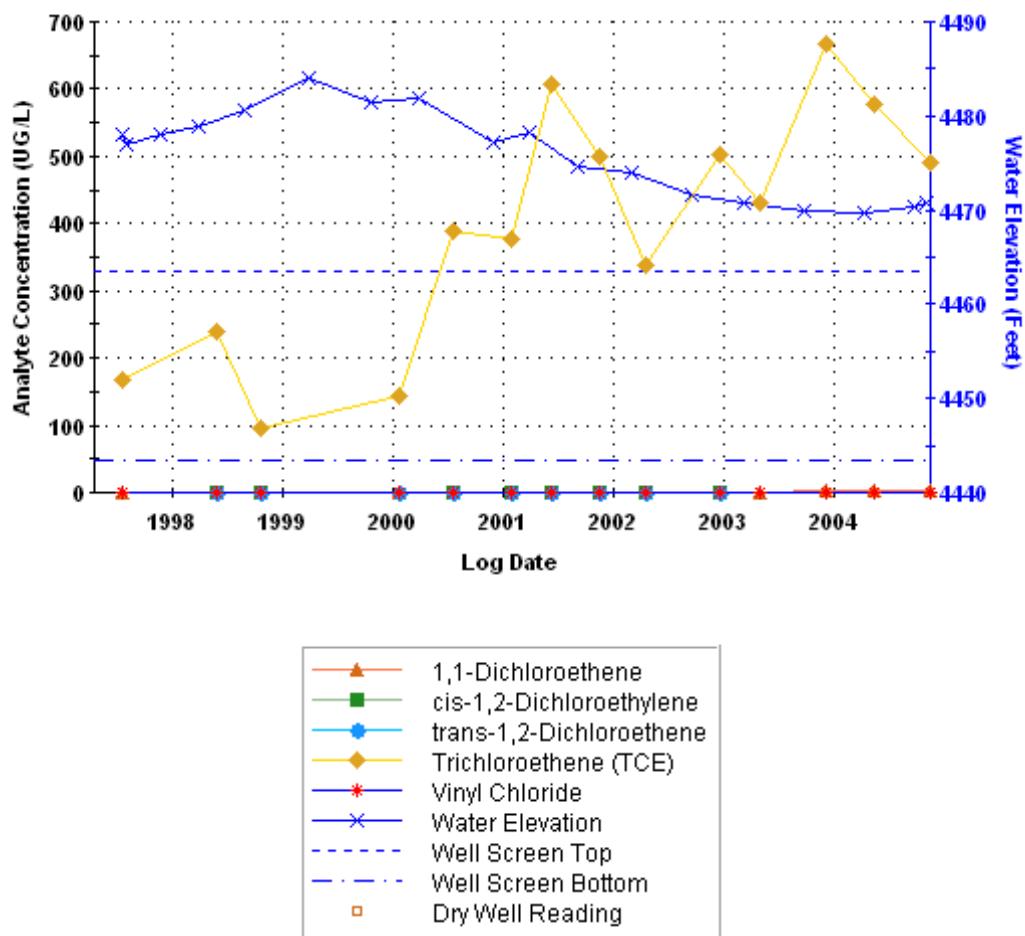
TEAD - Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location C-17, Tooele Army Depot



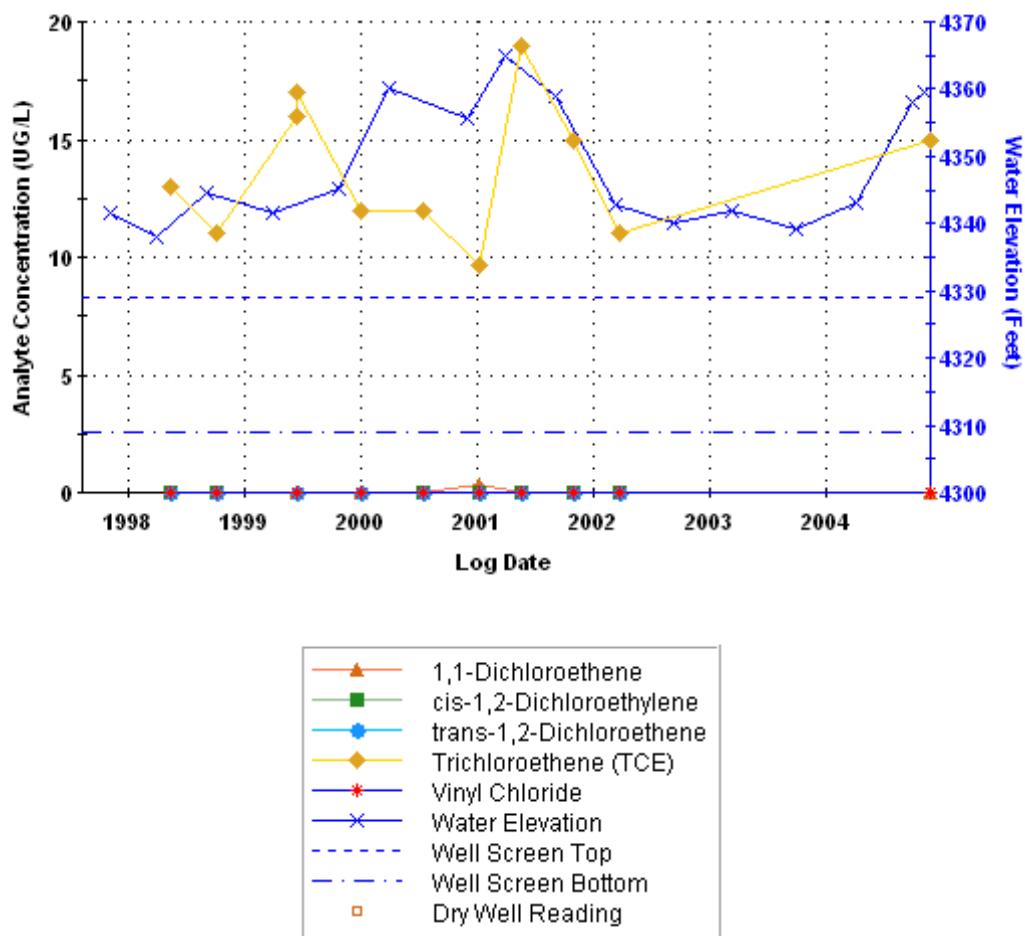
TEAD - Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location C-19, Tooele Army Depot



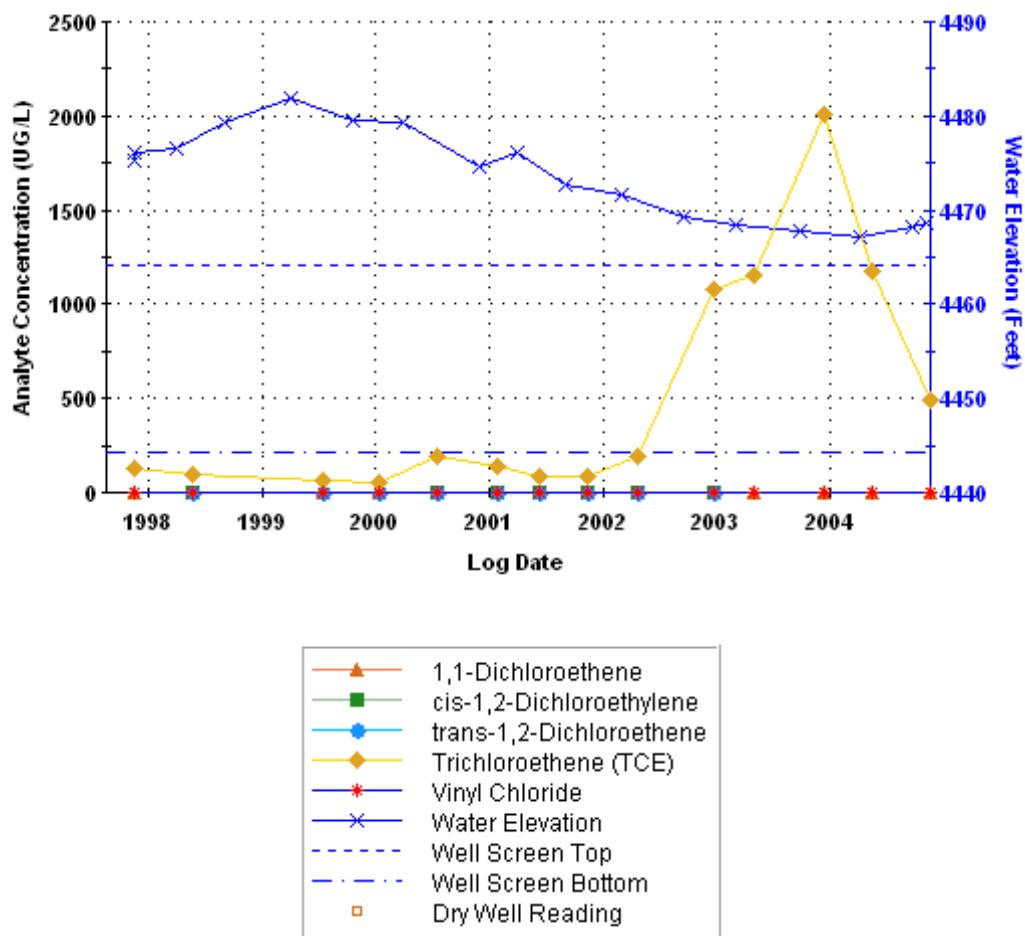
TEAD - Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location C-25, Tooele Army Depot



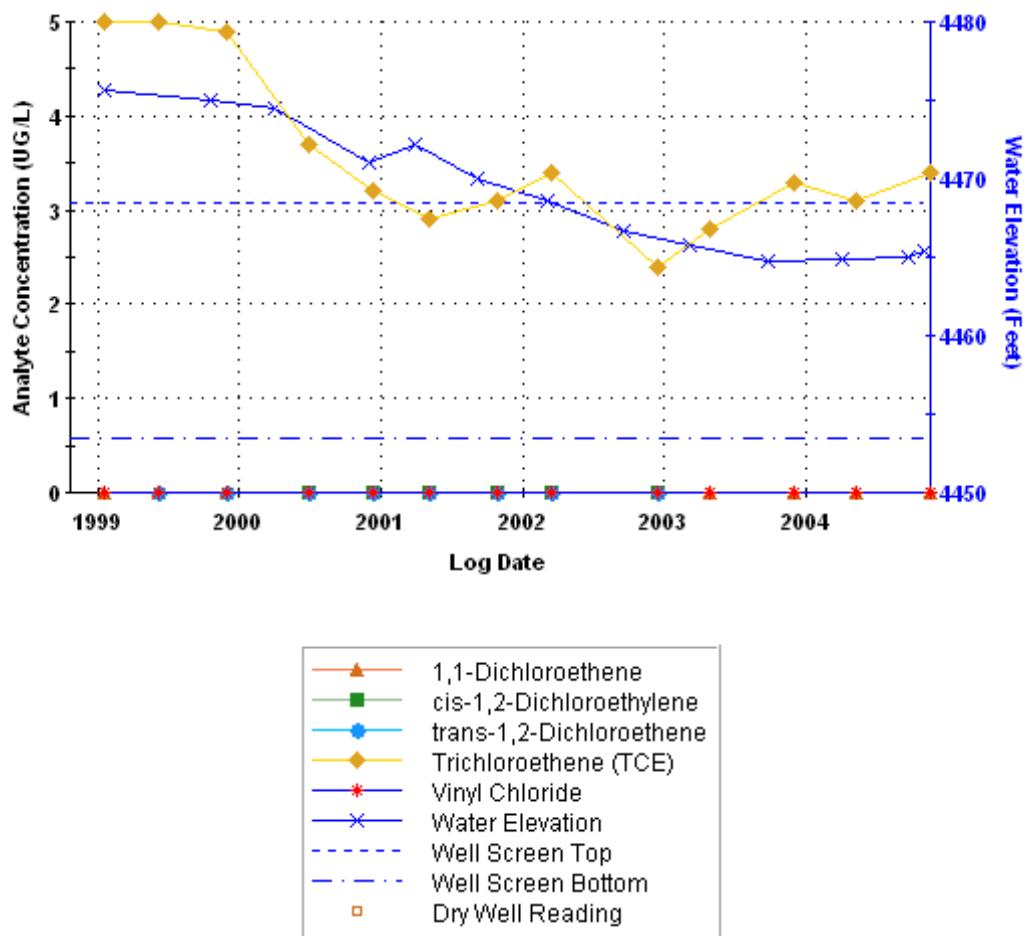
TEAD - Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location C-26, Tooele Army Depot



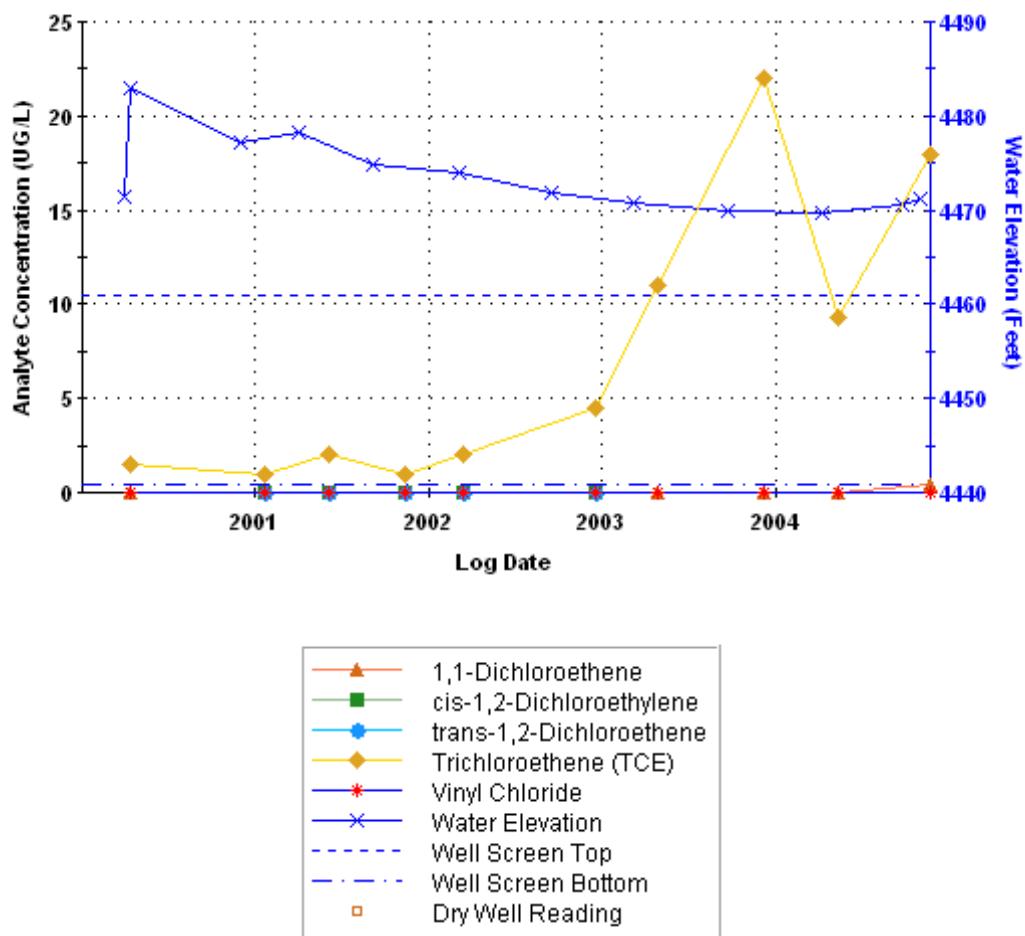
TEAD - Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location C-30, Tooele Army Depot



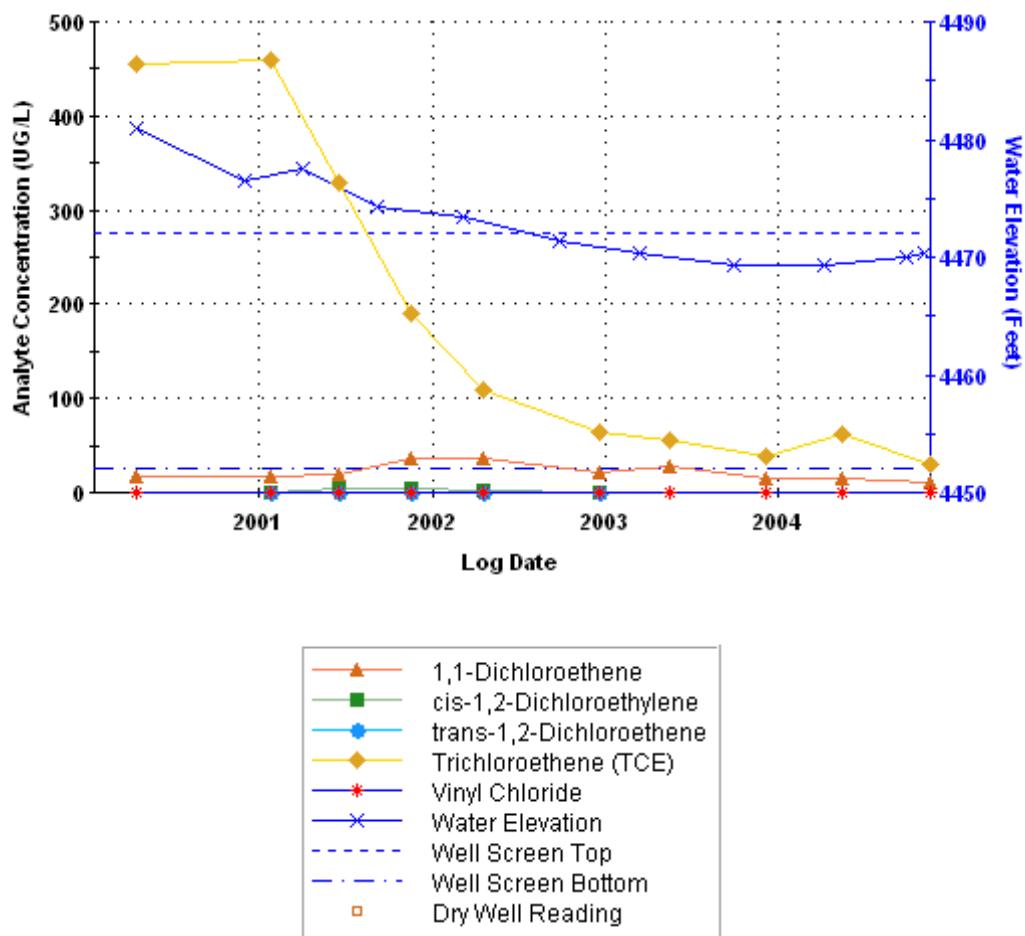
TEAD - Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location C-34, Tooele Army Depot



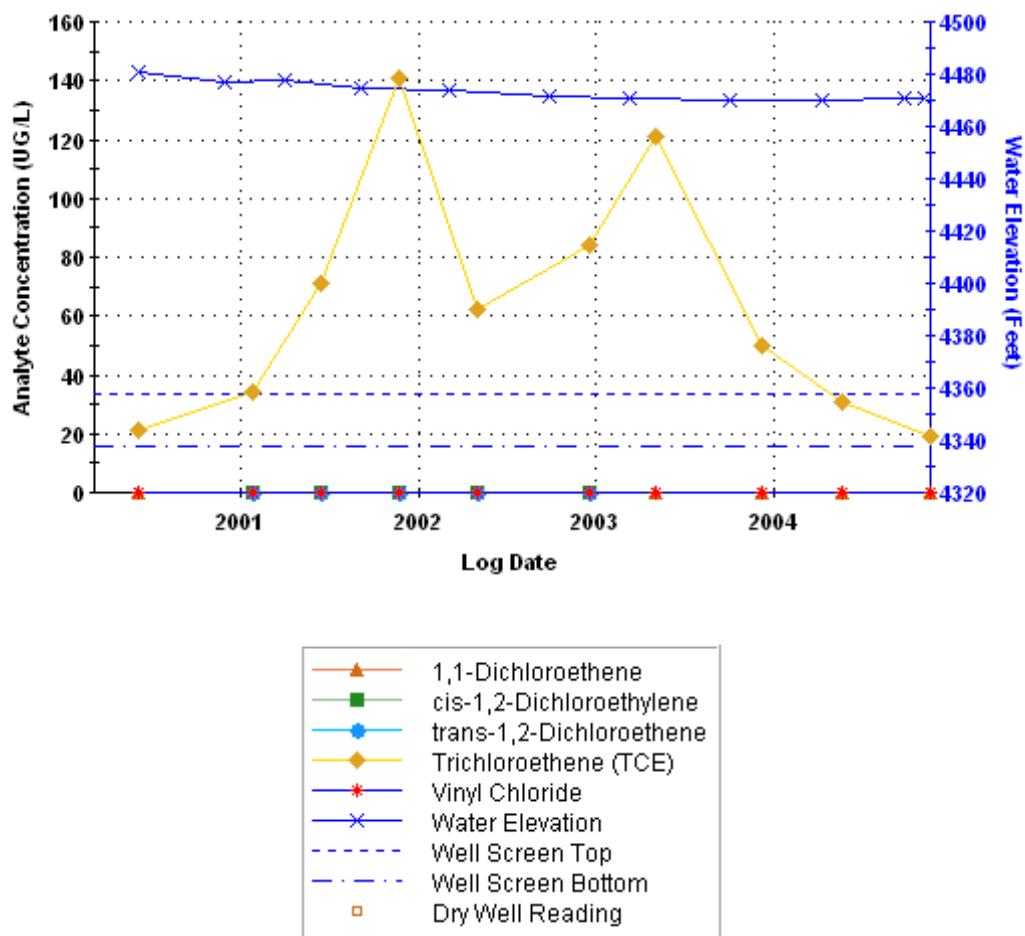
TEAD - Fall 2004
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TCE Breakdown Products
Location C-35, Tooele Army Depot



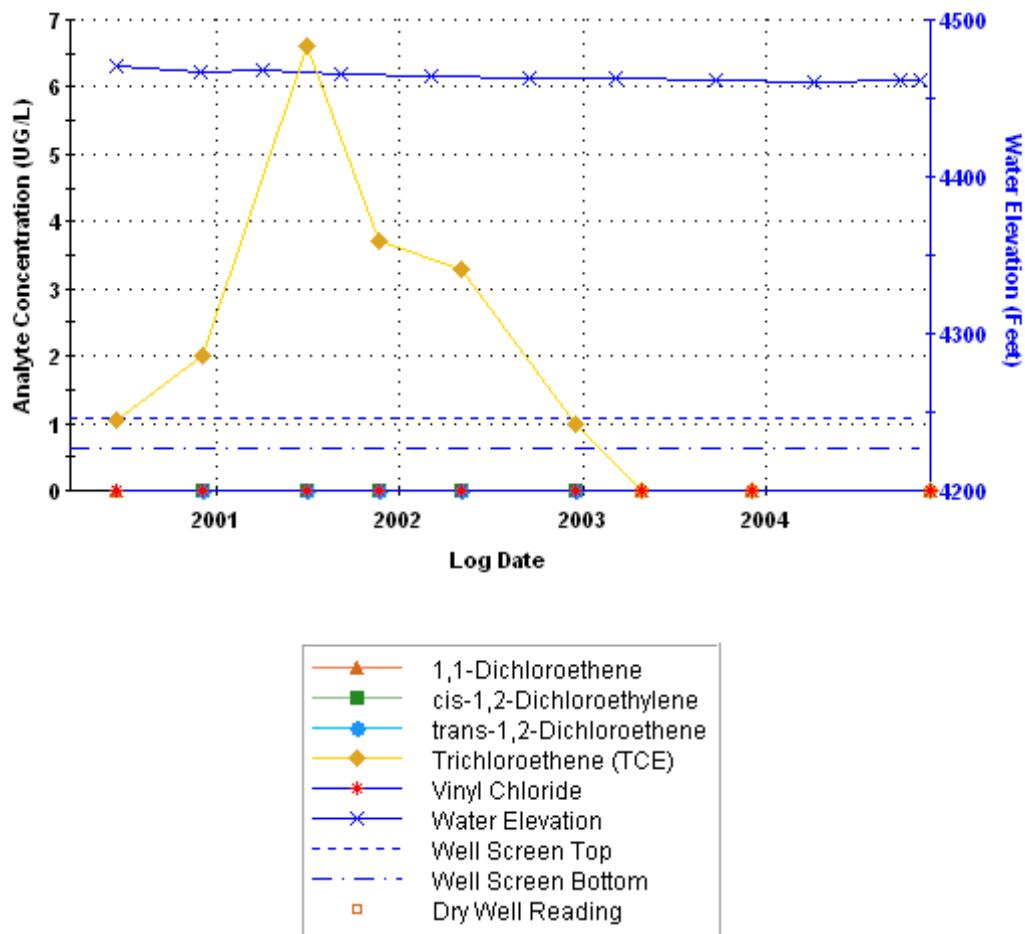
TEAD - Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location C-37, Tooele Army Depot



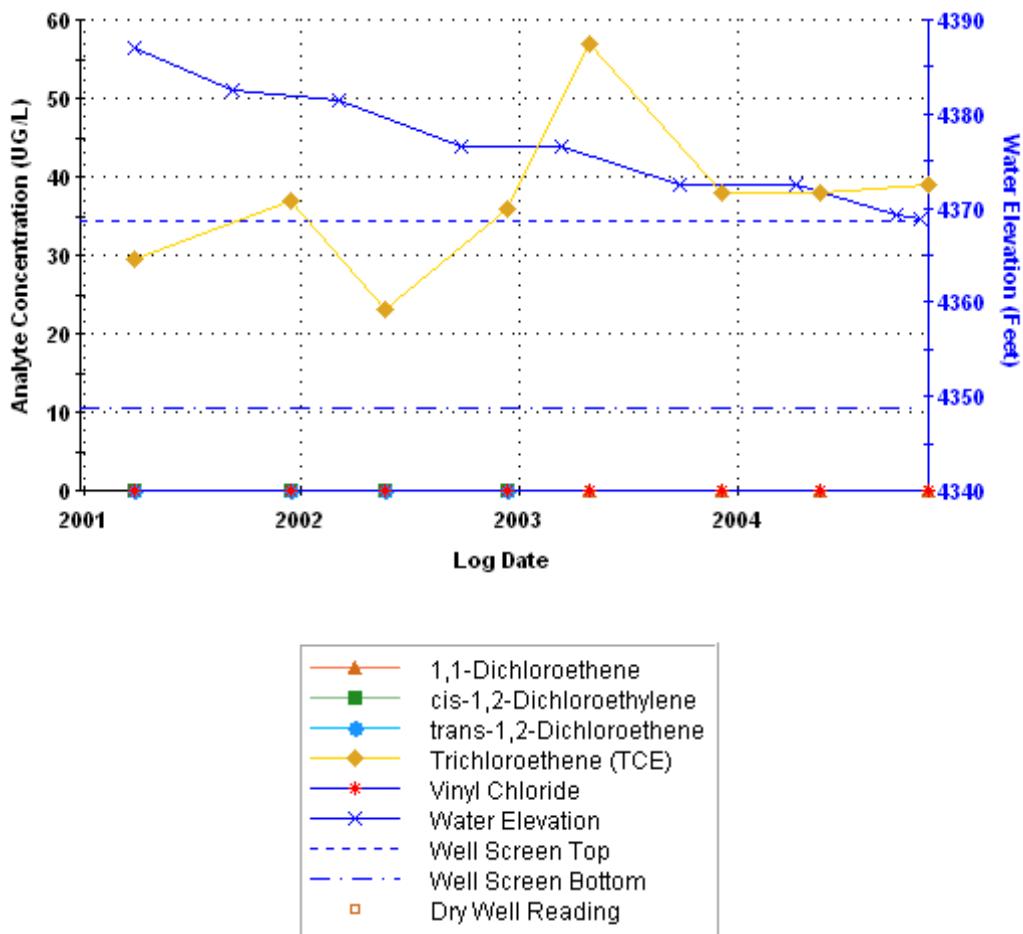
TEAD - Fall 2004
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TCE Breakdown Products
Location C-38, Tooele Army Depot



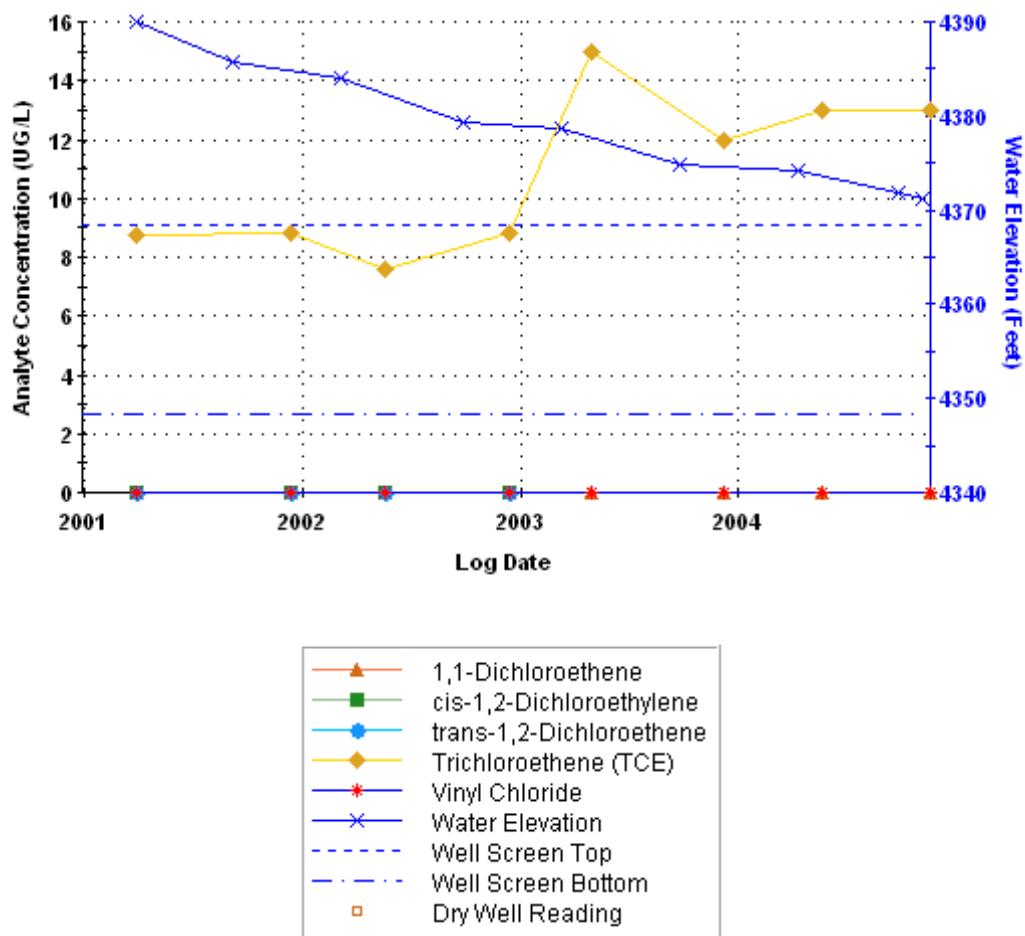
TEAD - Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location D-01, Tooele Army Depot



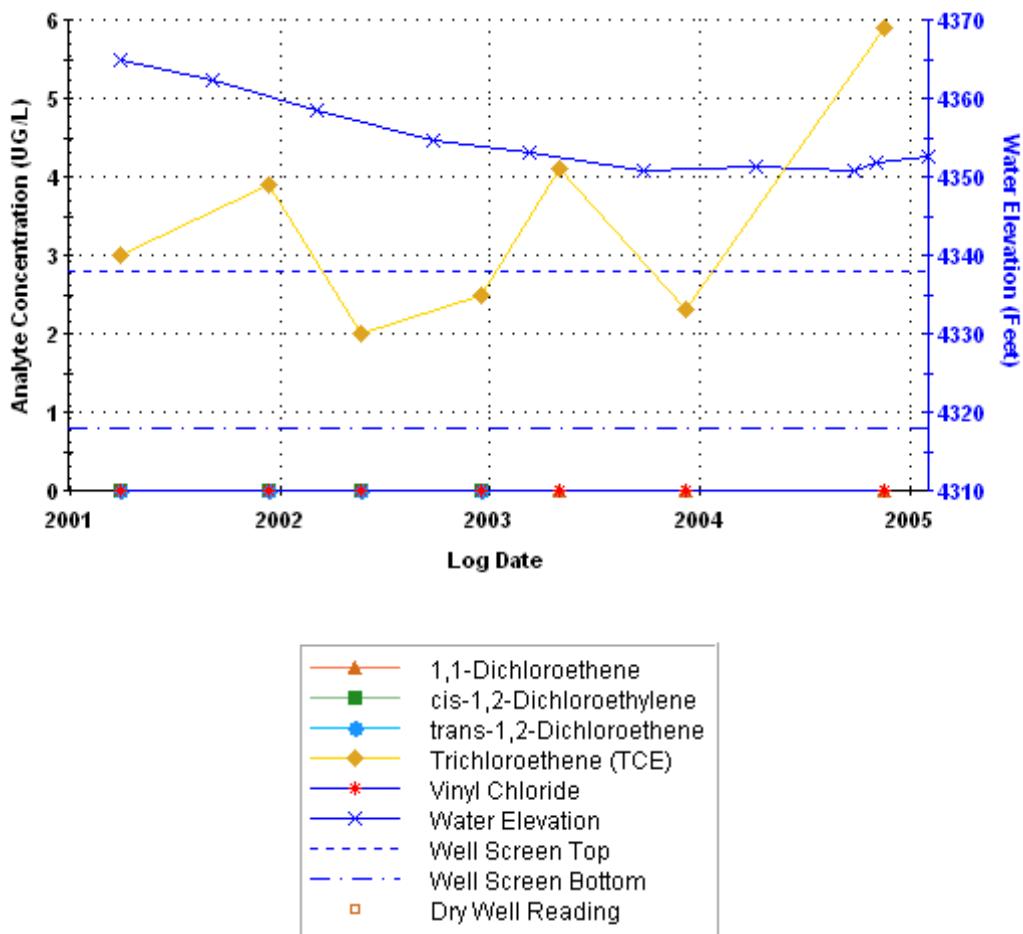
TEAD - Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location D-02, Tooele Army Depot



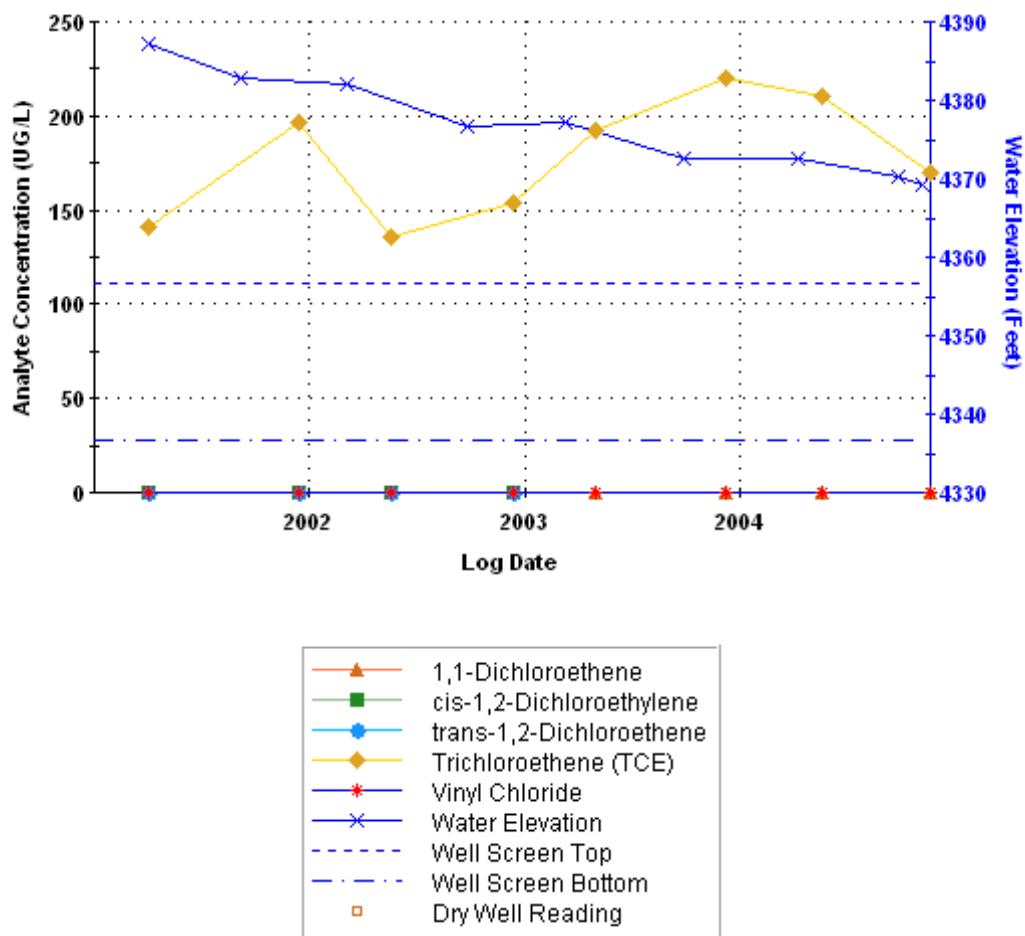
TEAD - Fall 2004
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TCE Breakdown Products
Location D-03, Tooele Army Depot



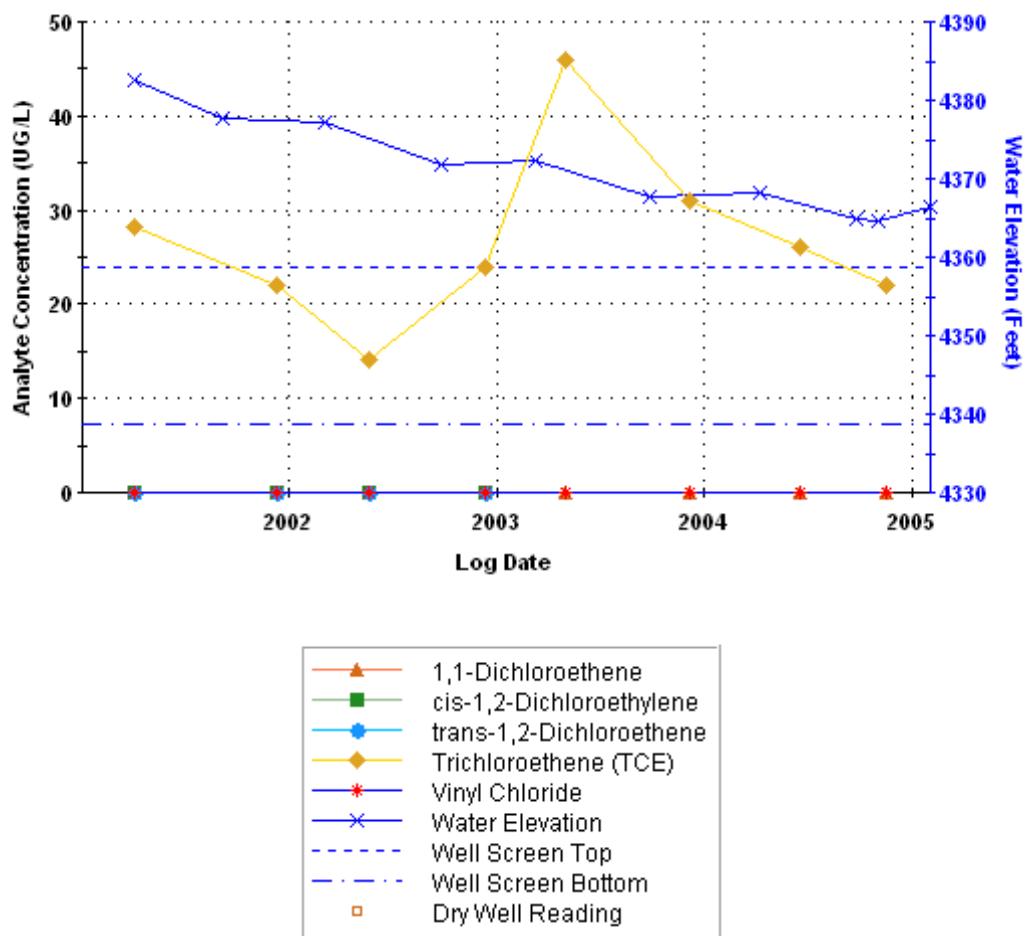
TEAD - Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location D-04, Tooele Army Depot



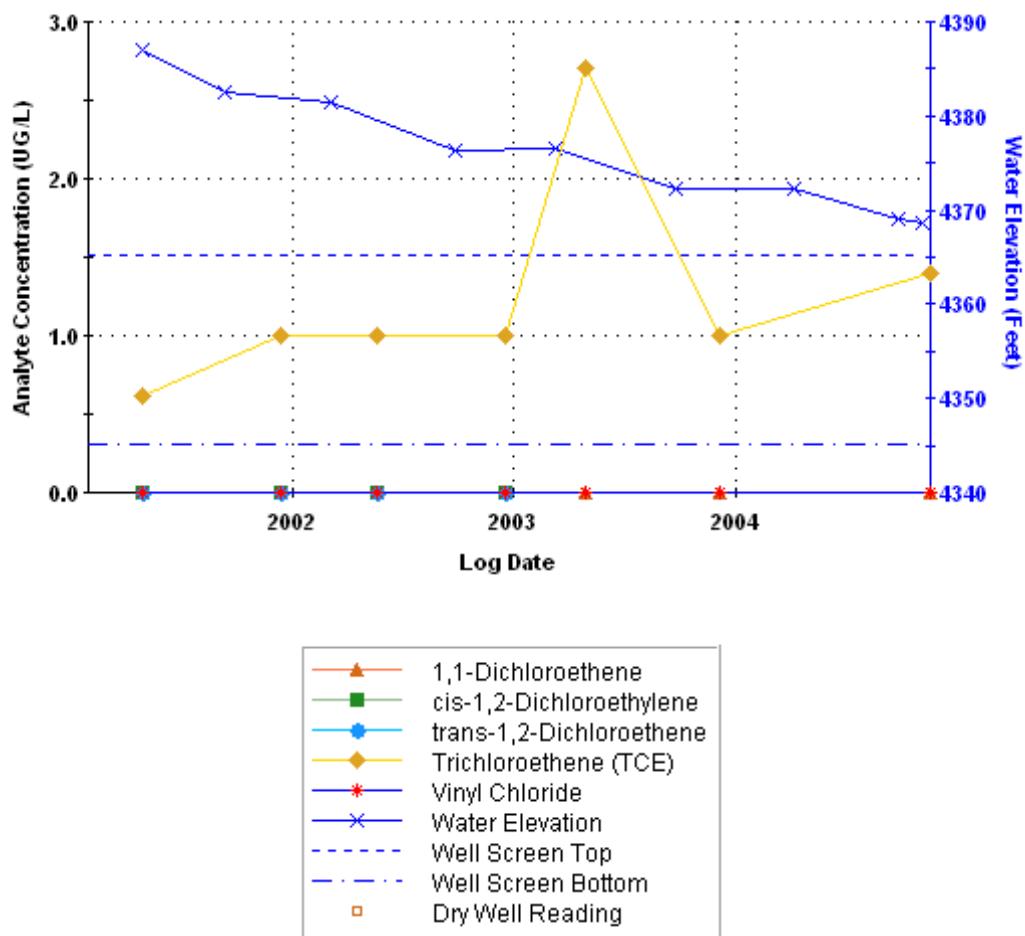
TEAD - Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location D-05, Tooele Army Depot



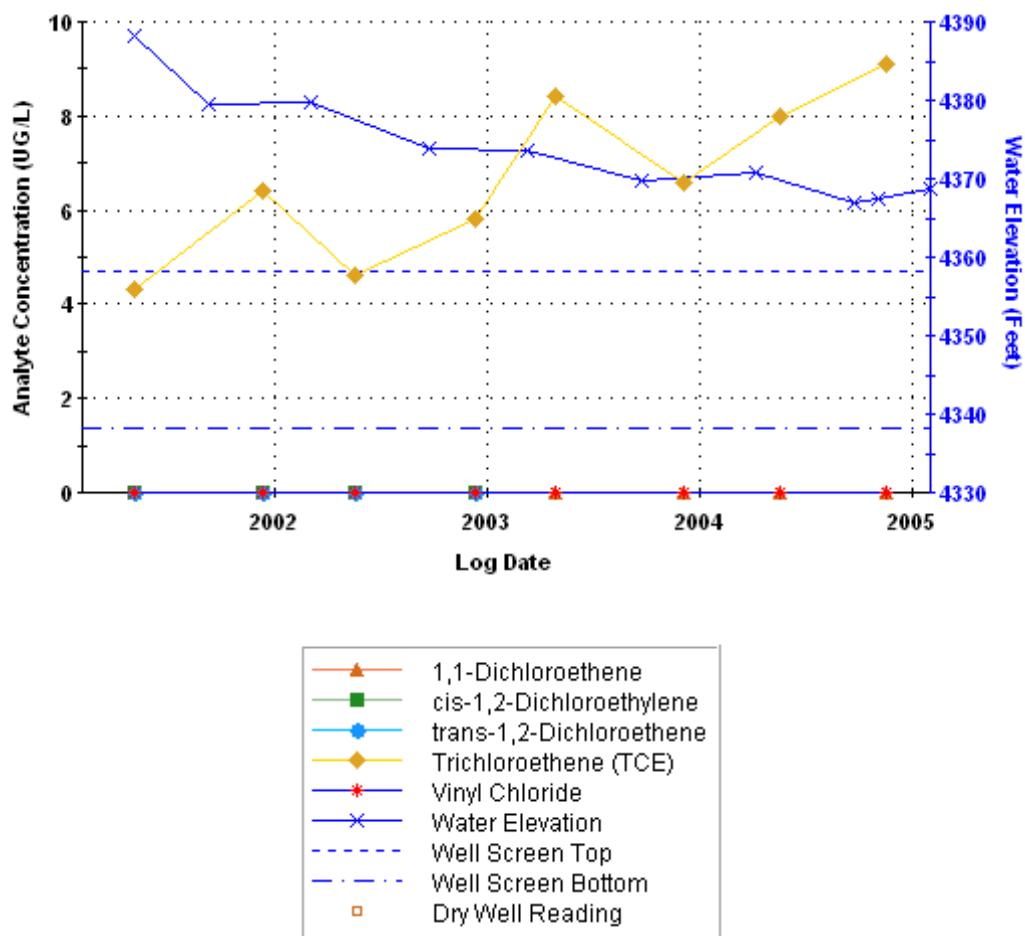
TEAD - Fall 2004
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TCE Breakdown Products
Location D-06, Tooele Army Depot



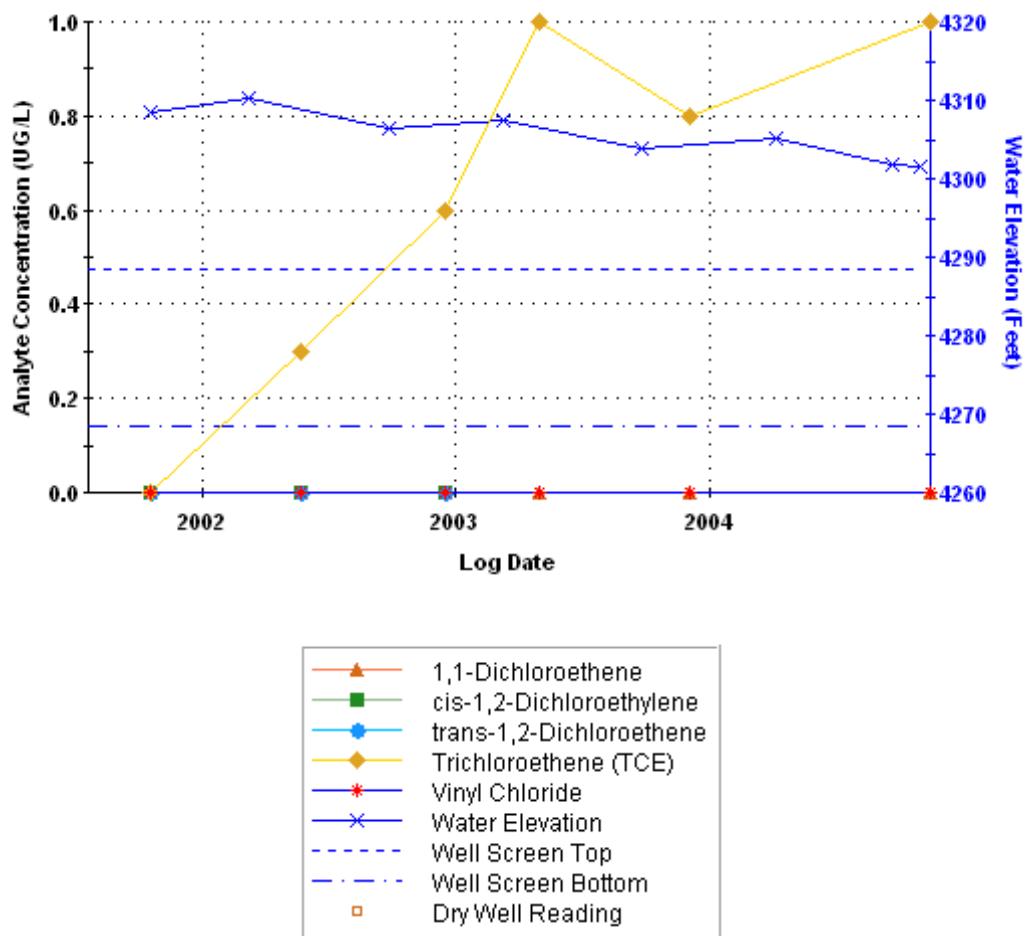
TEAD - Fall 2004
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TCE Breakdown Products
Location D-07, Tooele Army Depot



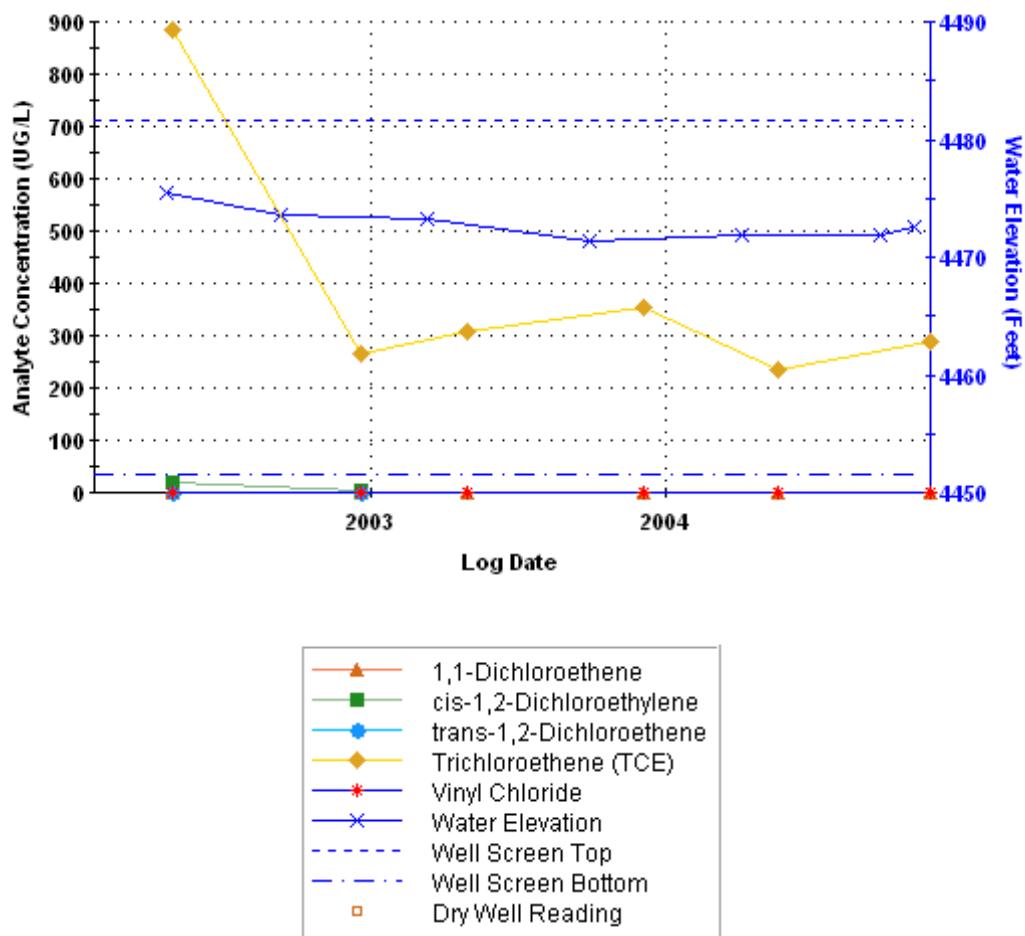
TEAD - Fall 2004
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TCE Breakdown Products
Location D-10, Tooele Army Depot



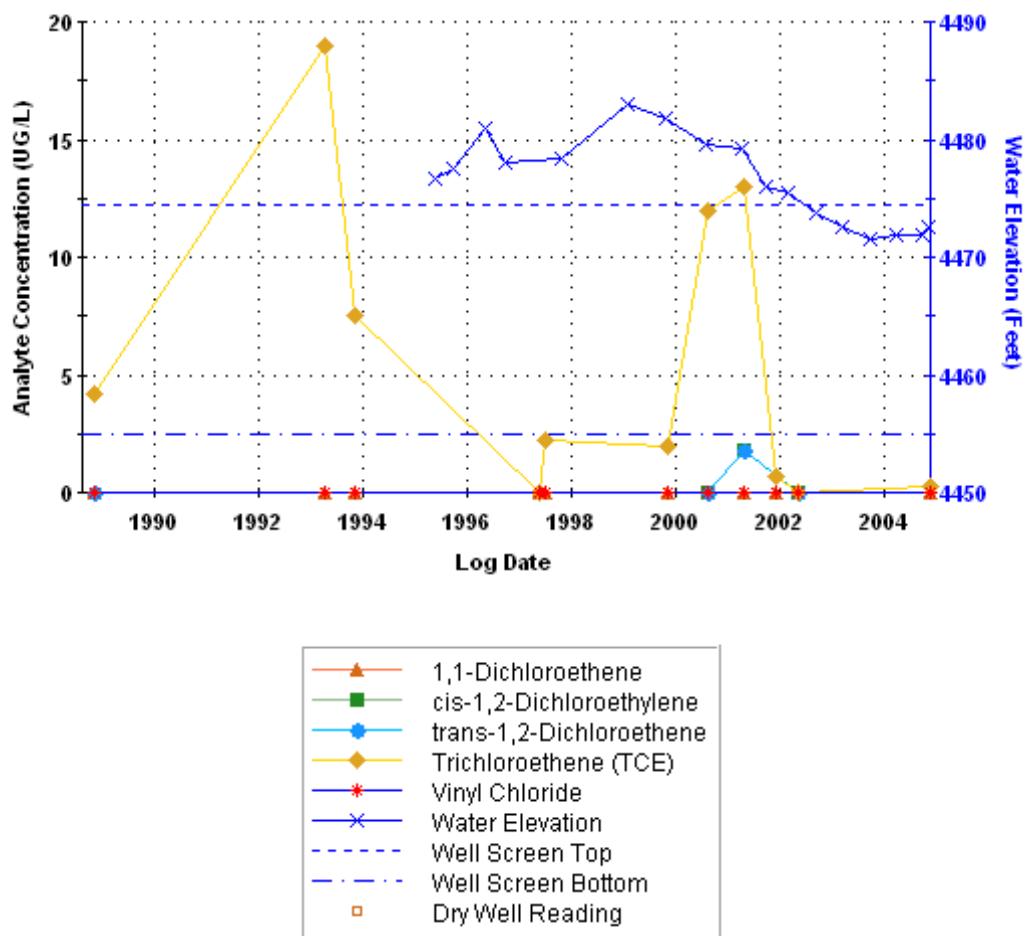
TEAD - Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location C-40, Tooele Army Depot



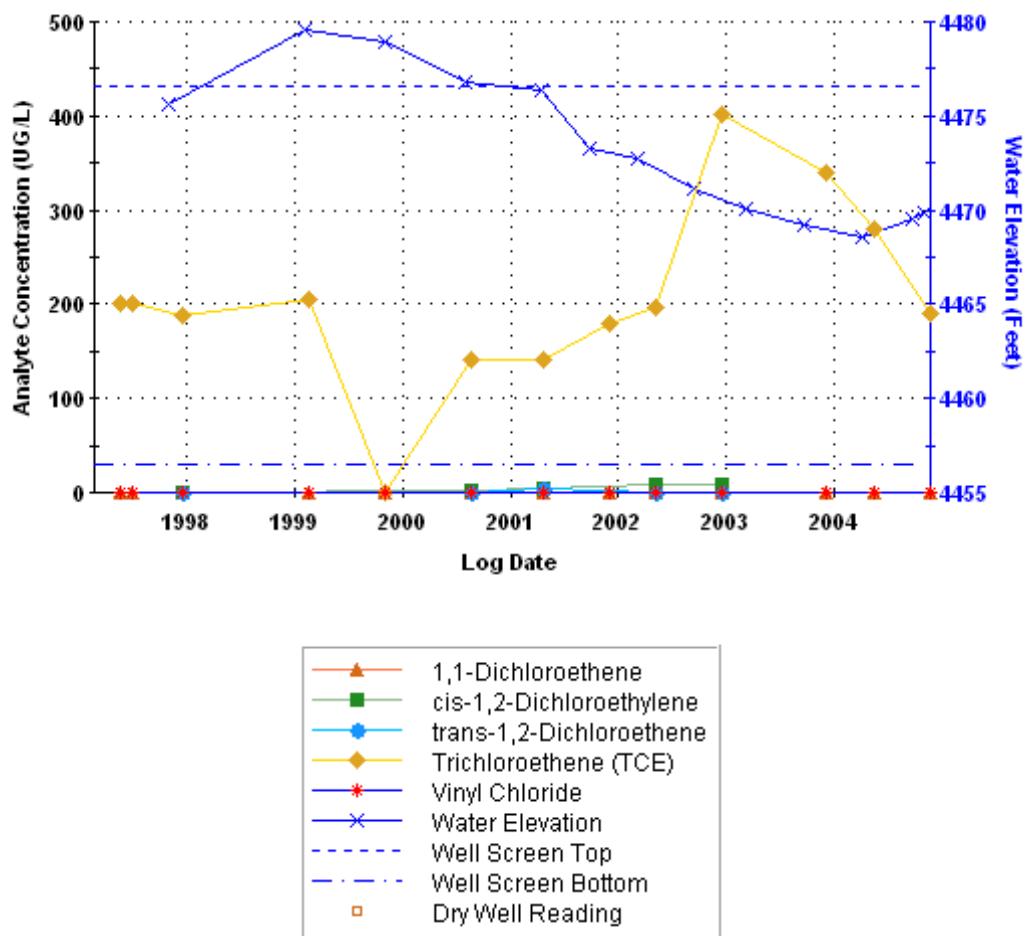
TEAD - Fall 2004 SWMU 12/15
Date Generated: 21 Mar 2005

TCE Breakdown Products
Location N-115-88, Tooele Army Depot



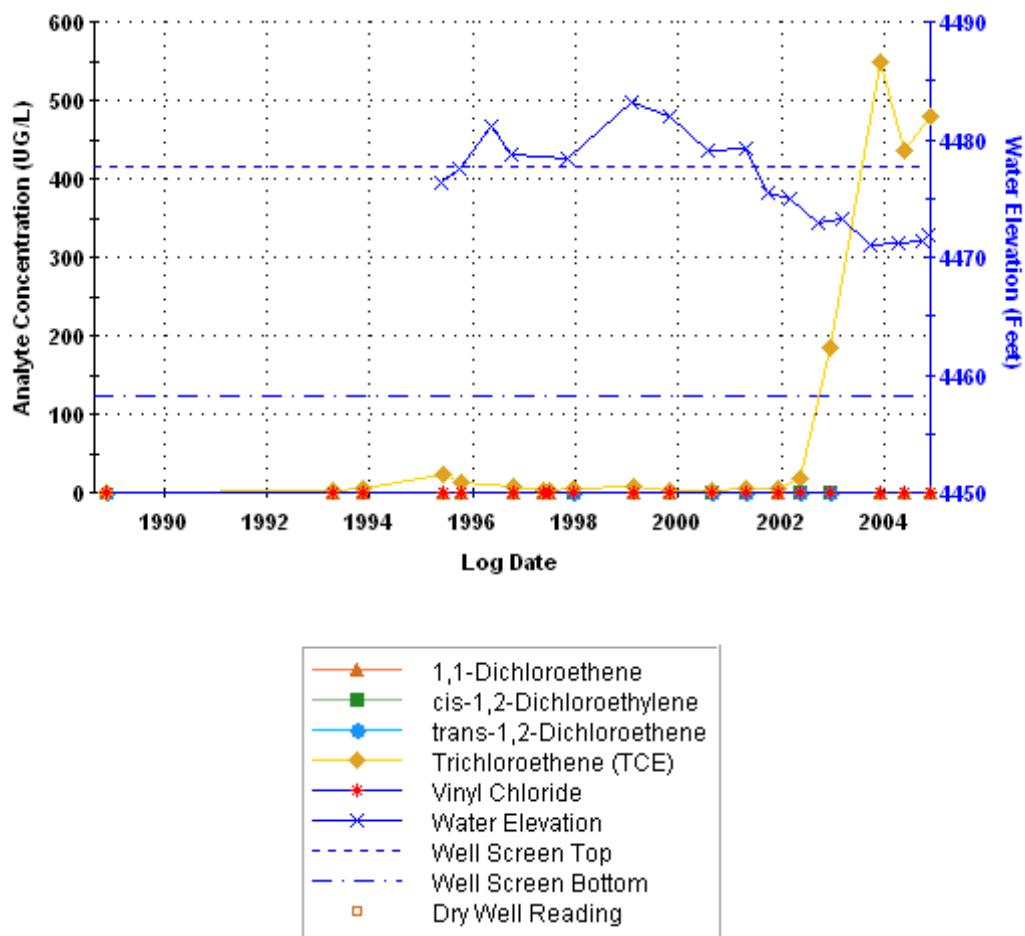
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Date Generated: 21 Mar 2005

TCE Breakdown Products
Location N-150-97, Tooele Army Depot



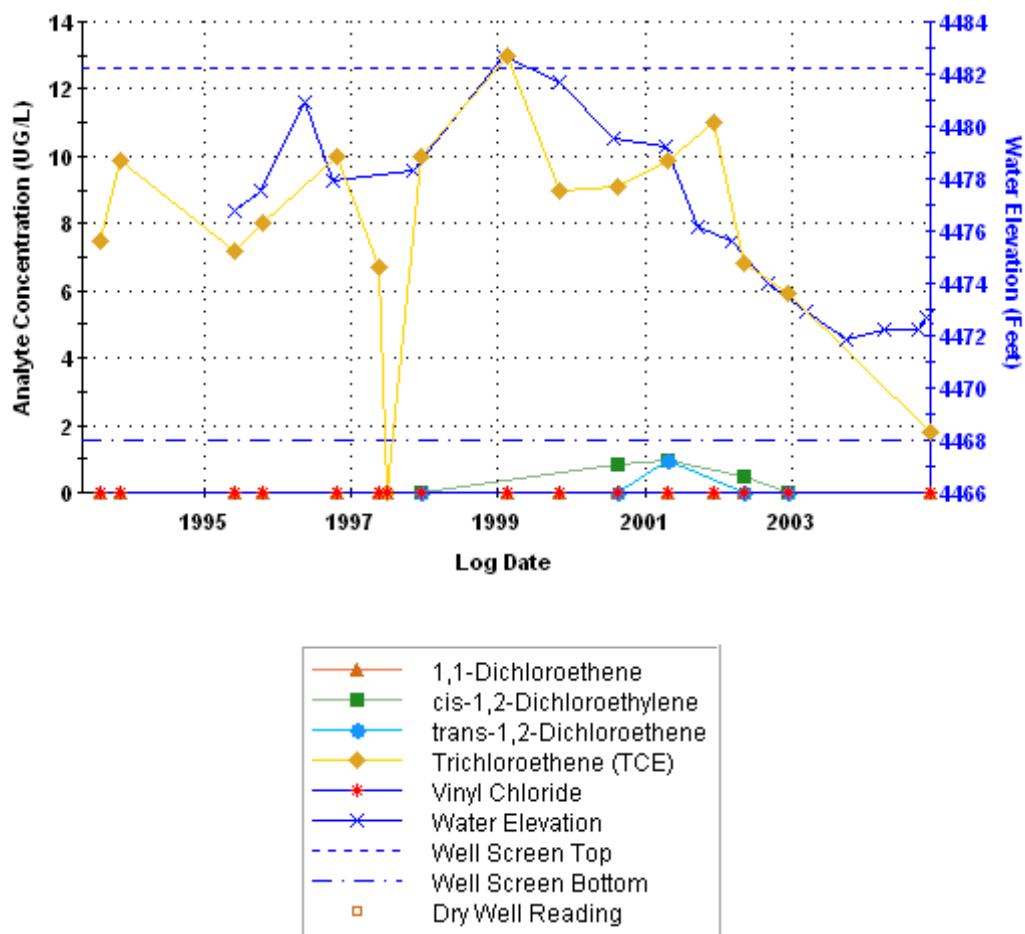
TEAD - Fall 2004 SWMU 12/15
Date Generated: 21 Mar 2005

TCE Breakdown Products
Location N-120-88, Tooele Army Depot



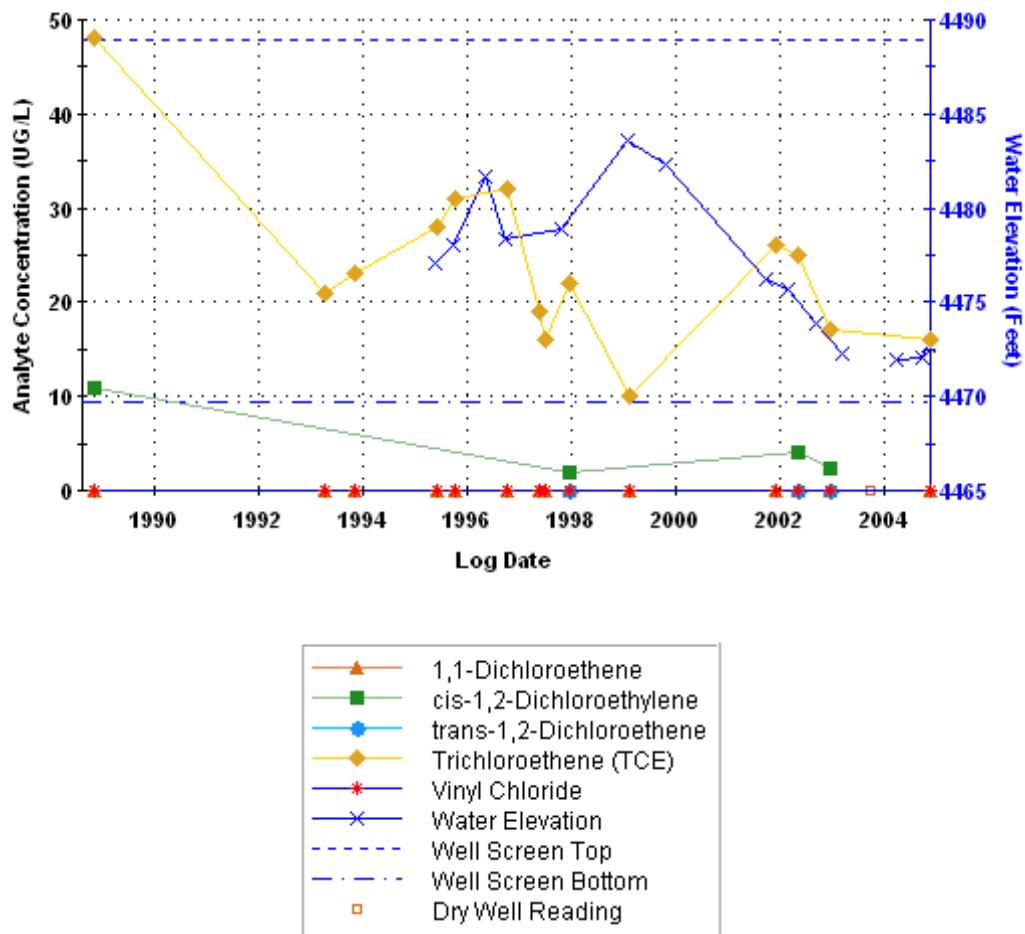
TEAD - Fall 2004 SWMU 12/15
Date Generated: 21 Mar 2005

TCE Breakdown Products
Location N-117-88, Tooele Army Depot



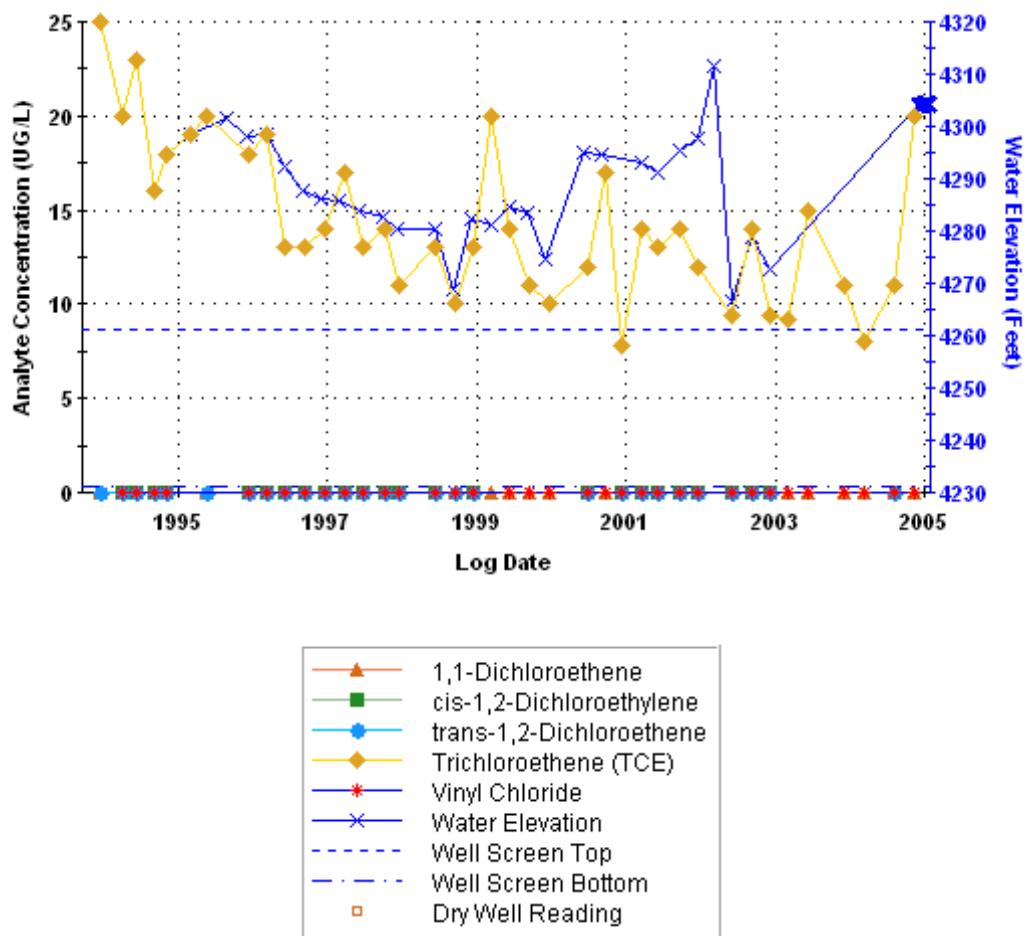
TEAD - Fall 2004 SWMU 12/15
Date Generated: 21 Mar 2005

TCE Breakdown Products
Location N-116-88, Tooele Army Depot



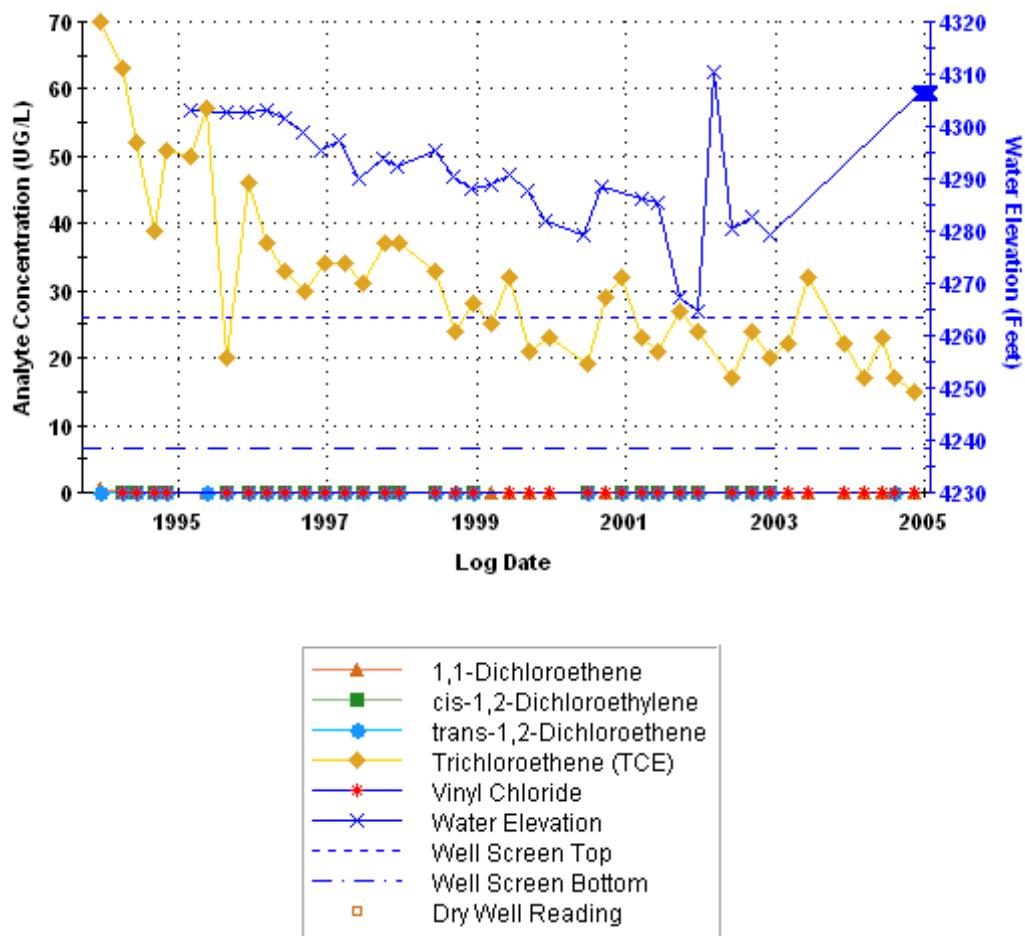
TEAD - Fall 2004 SWMU 12/15
Date Generated: 21 Mar 2005

TCE Breakdown Products
Location E-01, Tooele Army Depot



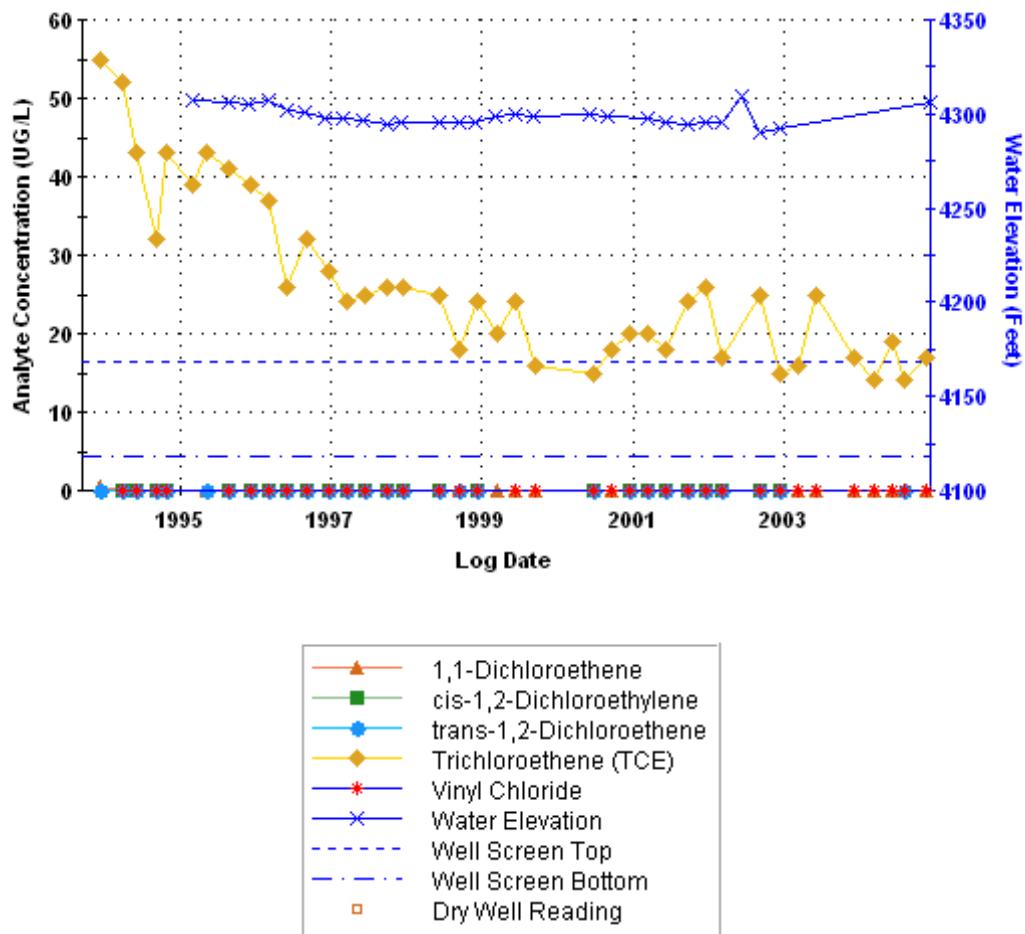
TEAD - Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location E-02-1, Tooele Army Depot



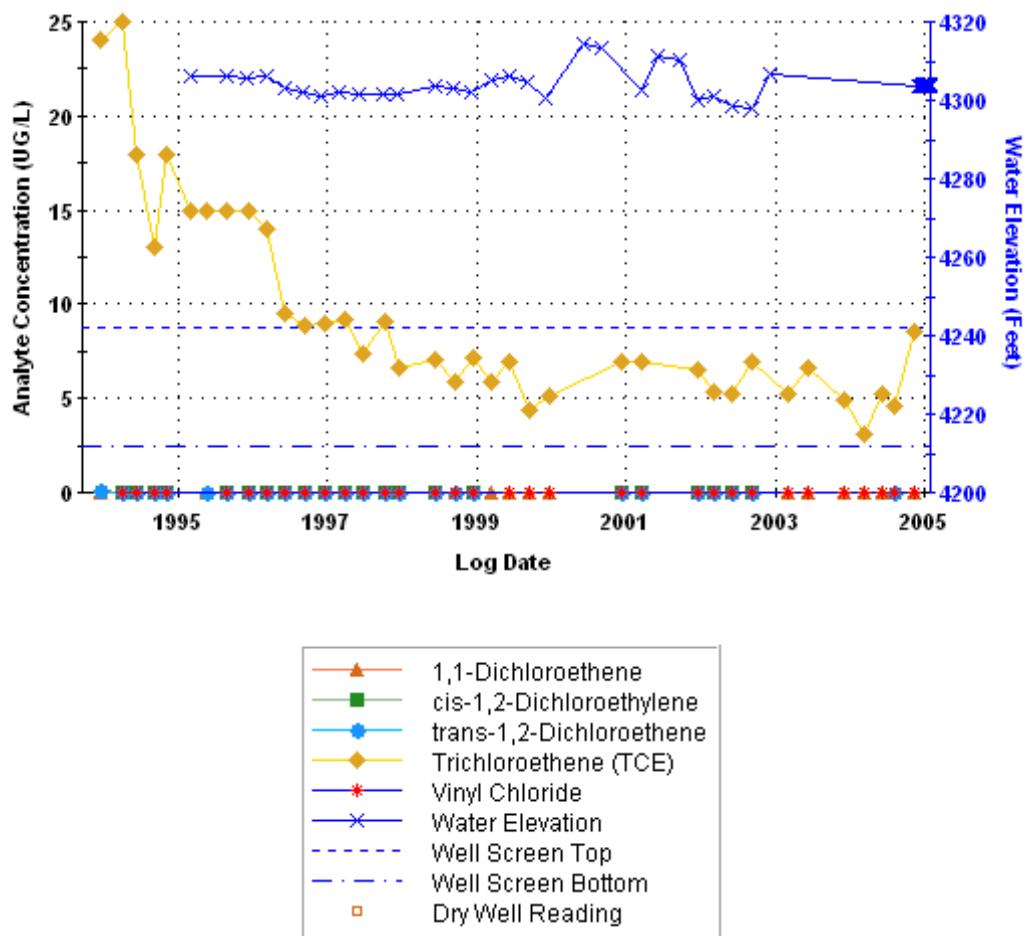
TEAD - Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location E-02-2, Tooele Army Depot



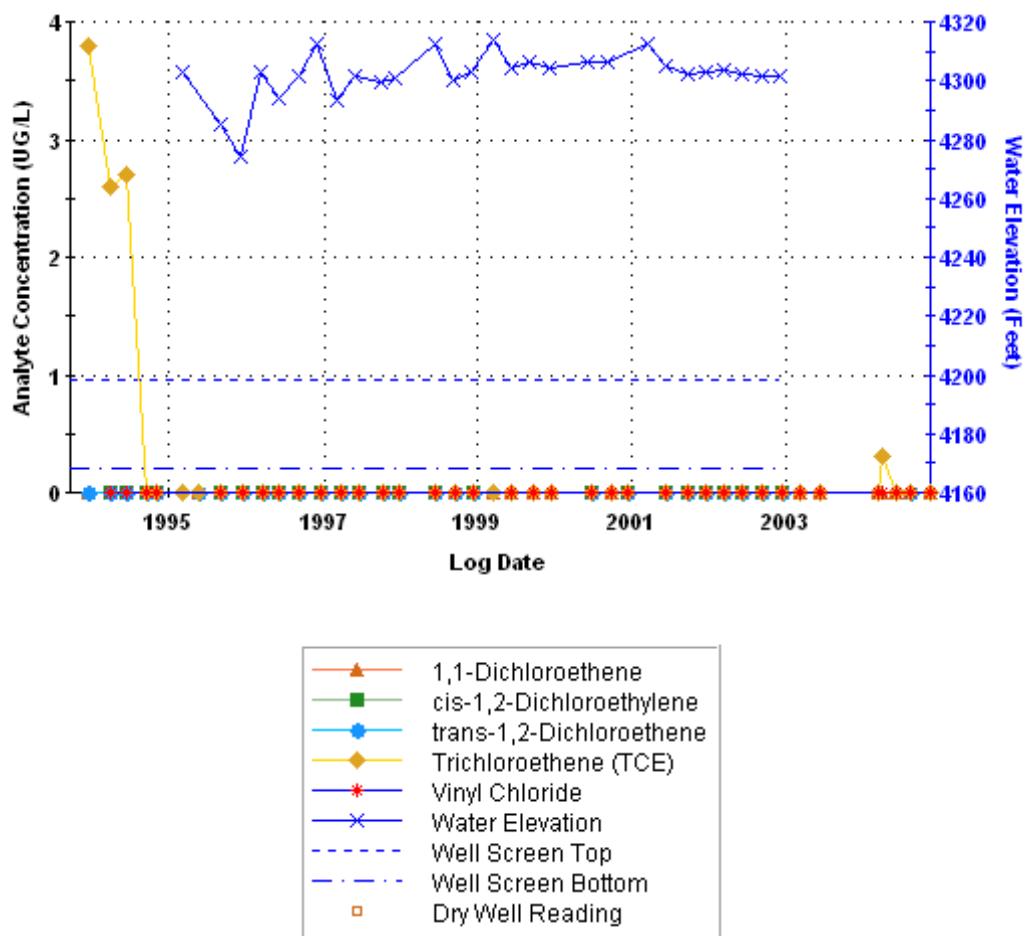
TEAD - Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location E-11, Tooele Army Depot



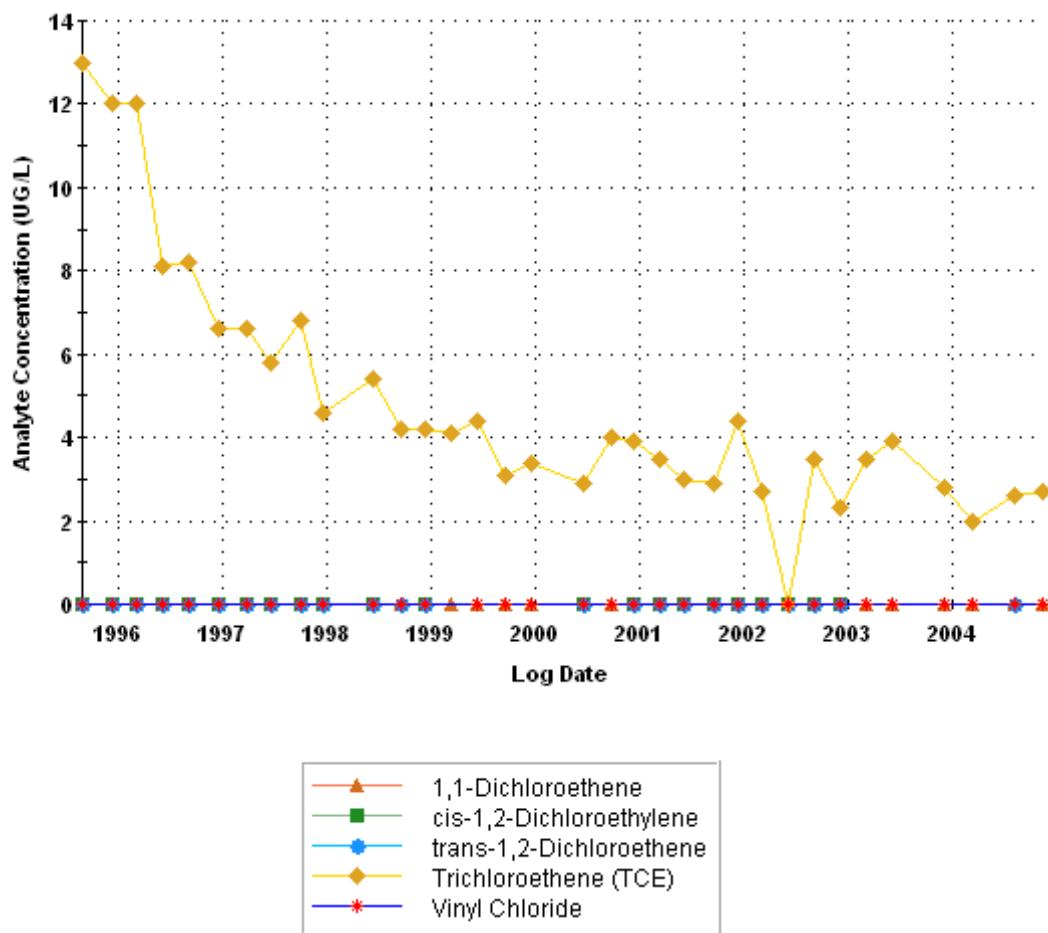
TEAD - Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location E-12, Tooele Army Depot



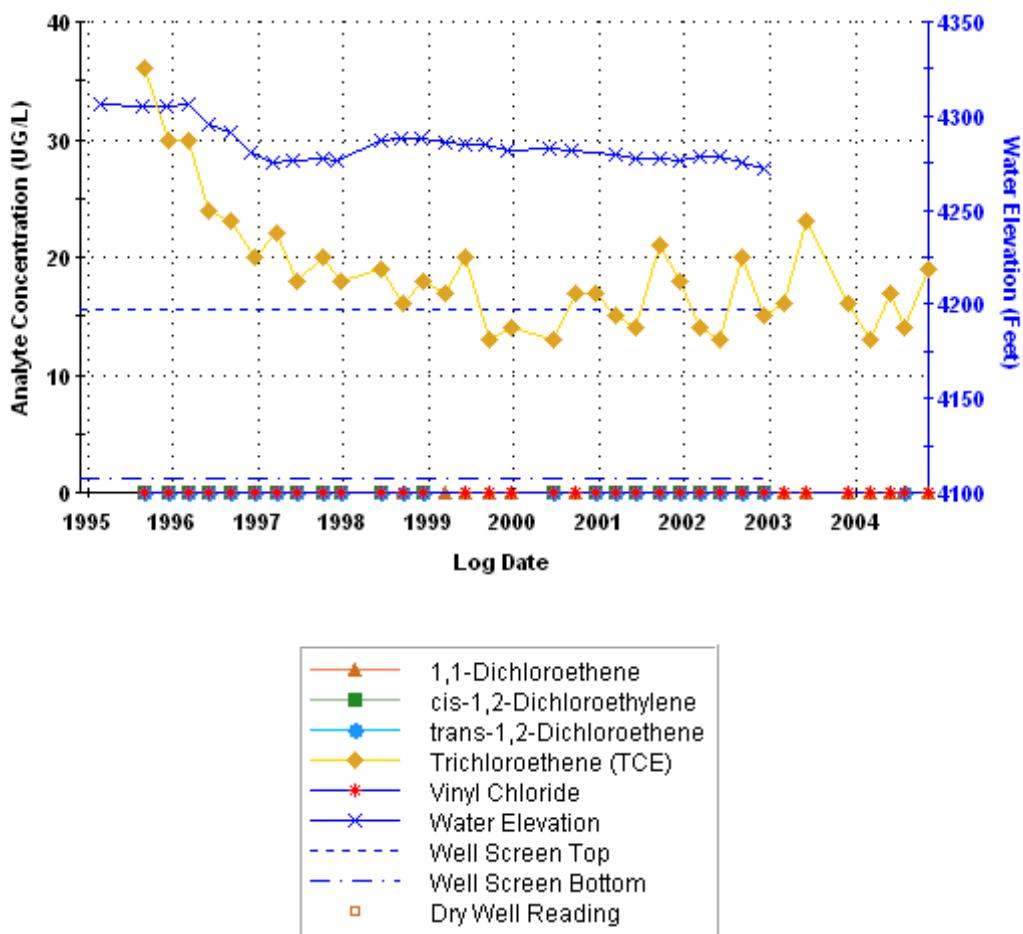
TEAD - Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location E-13, Tooele Army Depot



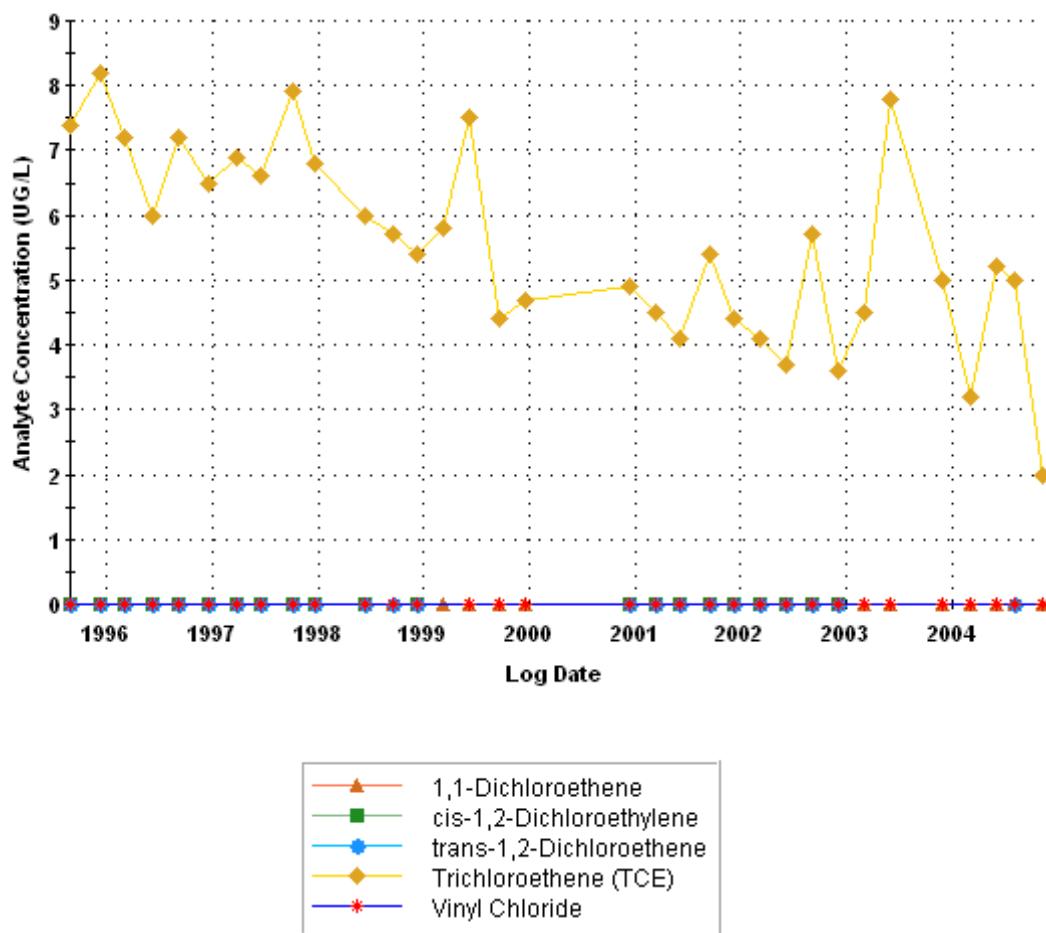
TEAD - Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location E-14, Tooele Army Depot



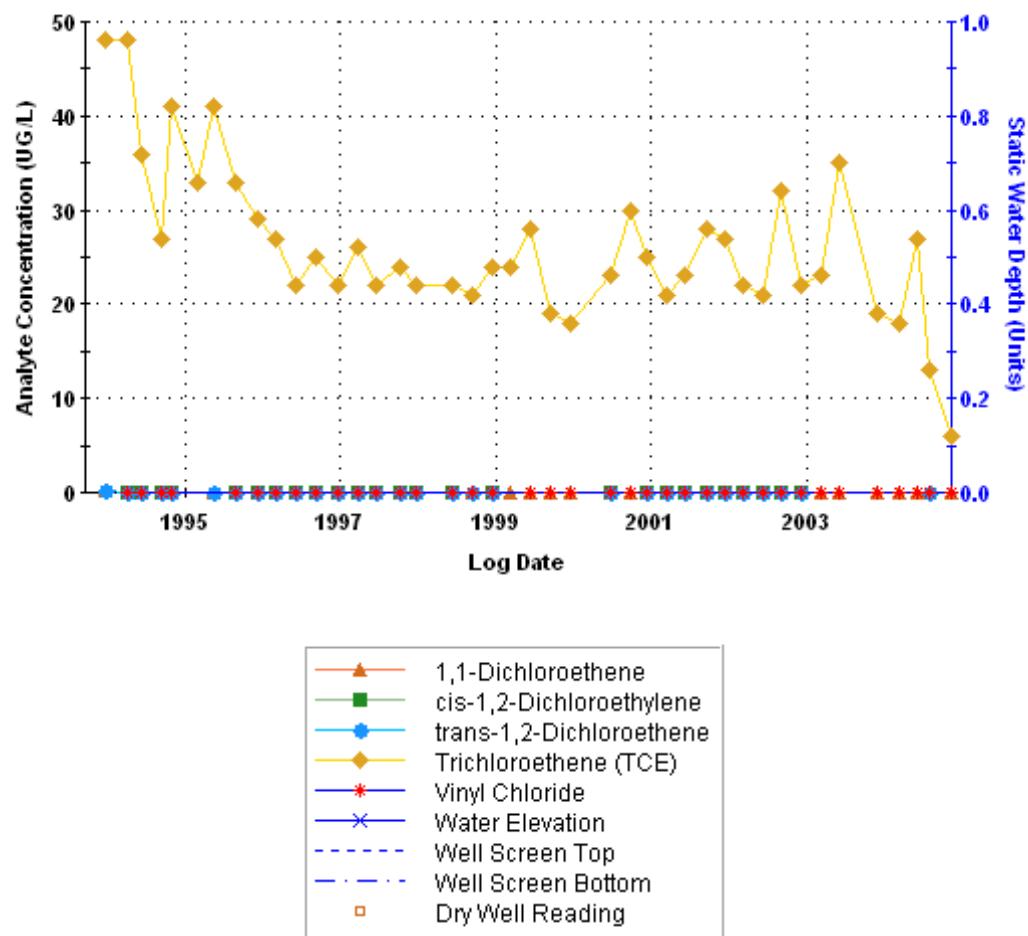
TEAD - Fall 2004
Date Generated: 17 Mar 2005

TCE Breakdown Products
Location E-15, Tooele Army Depot



TEAD - Fall 2004
Date Generated: 17 Mar 2005

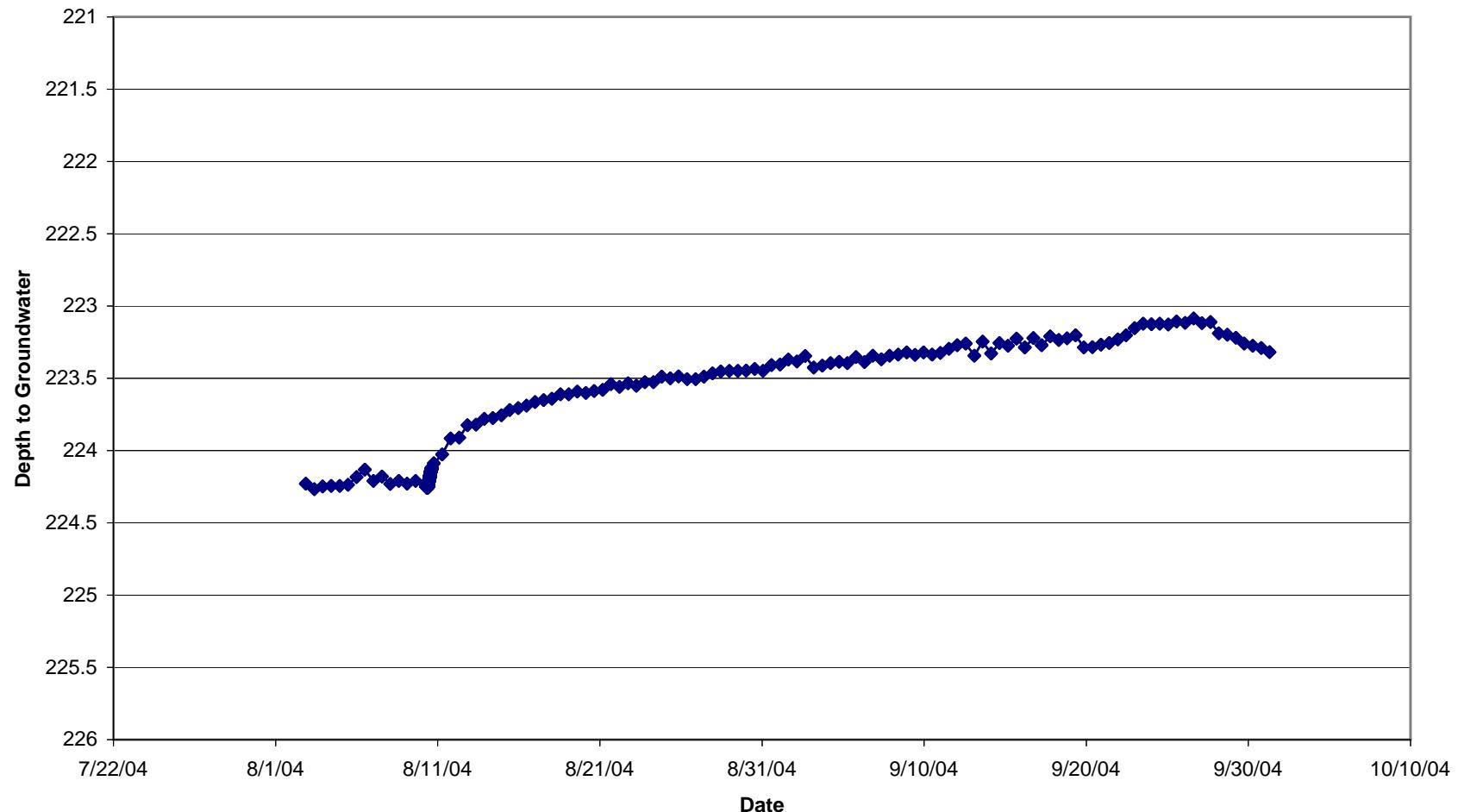
TCE Breakdown Products
Location INF, Tooele Army Depot



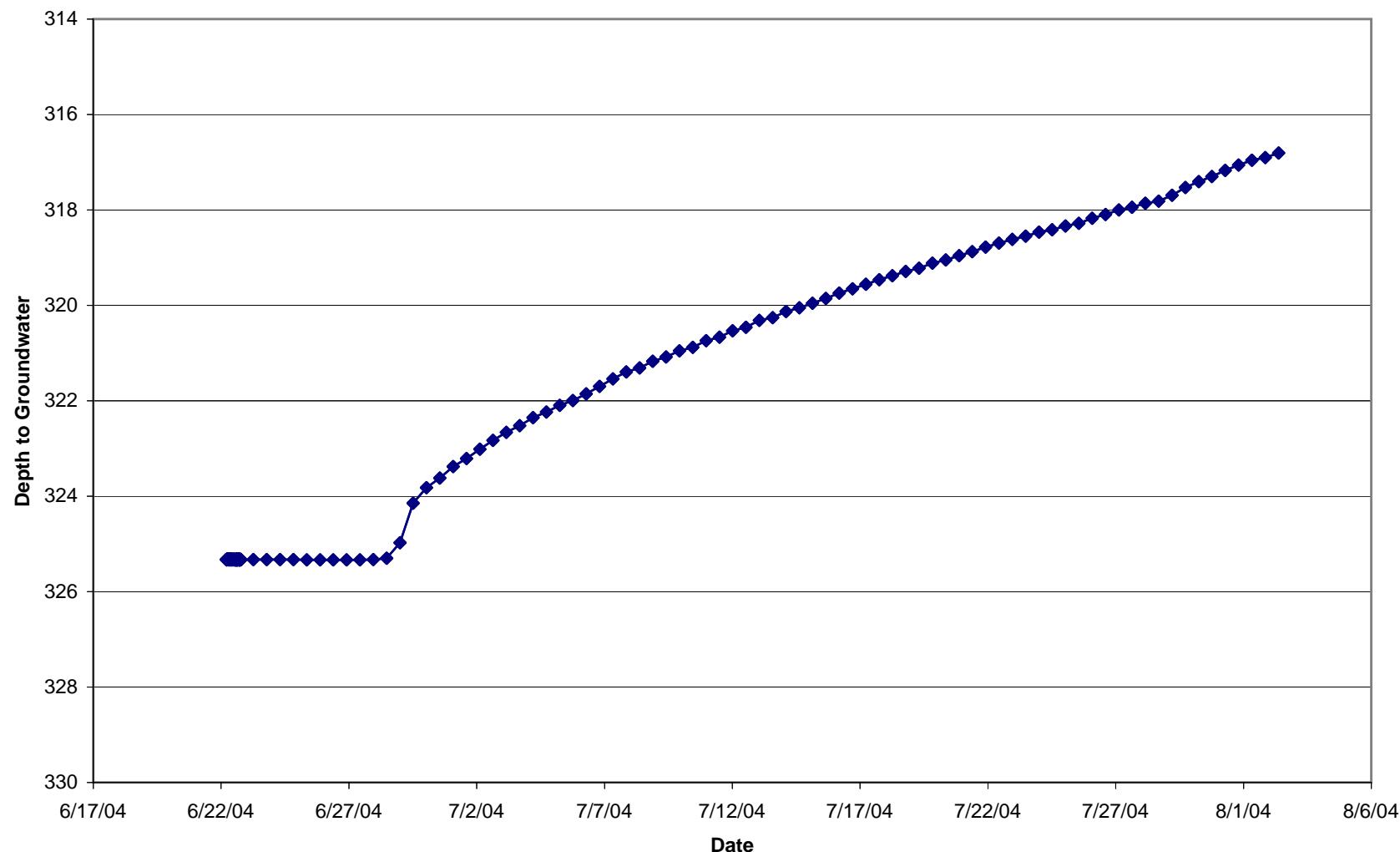
APPENDIX F

Rebound Hydrographs for Selected Wells

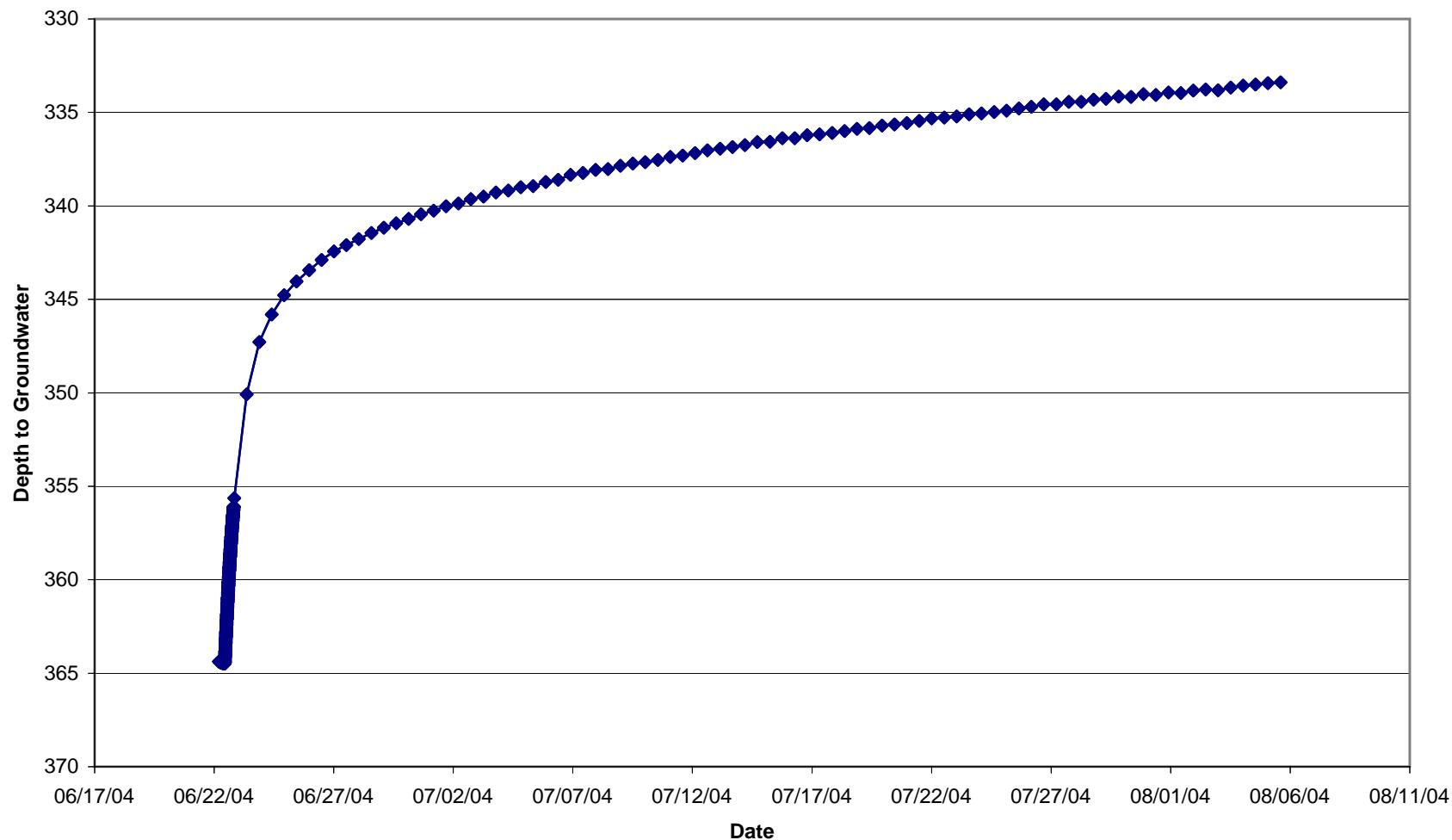
Water Level Recovery A-05



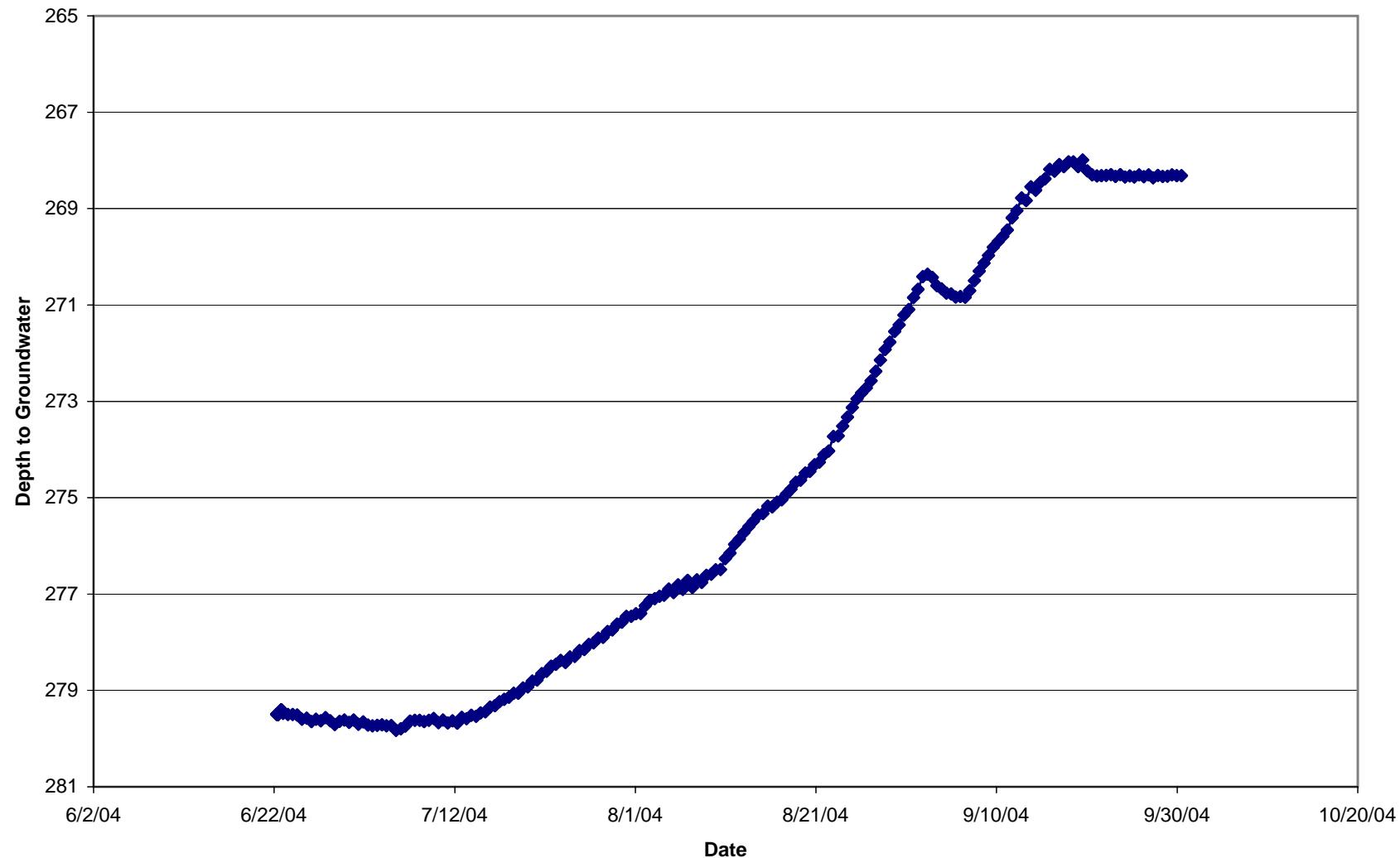
Water Level Recovery A-07A



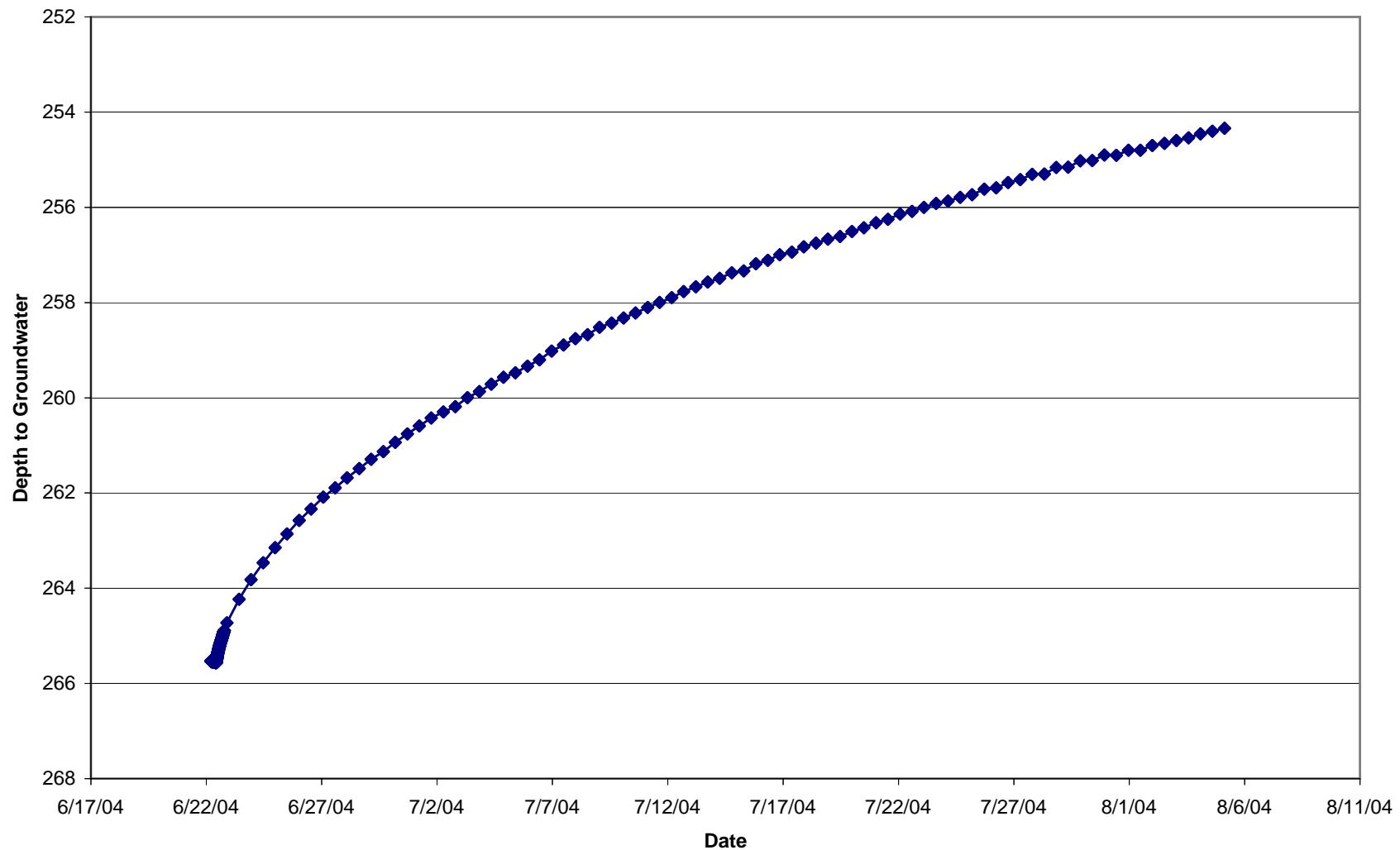
Water Level Recovery B-05



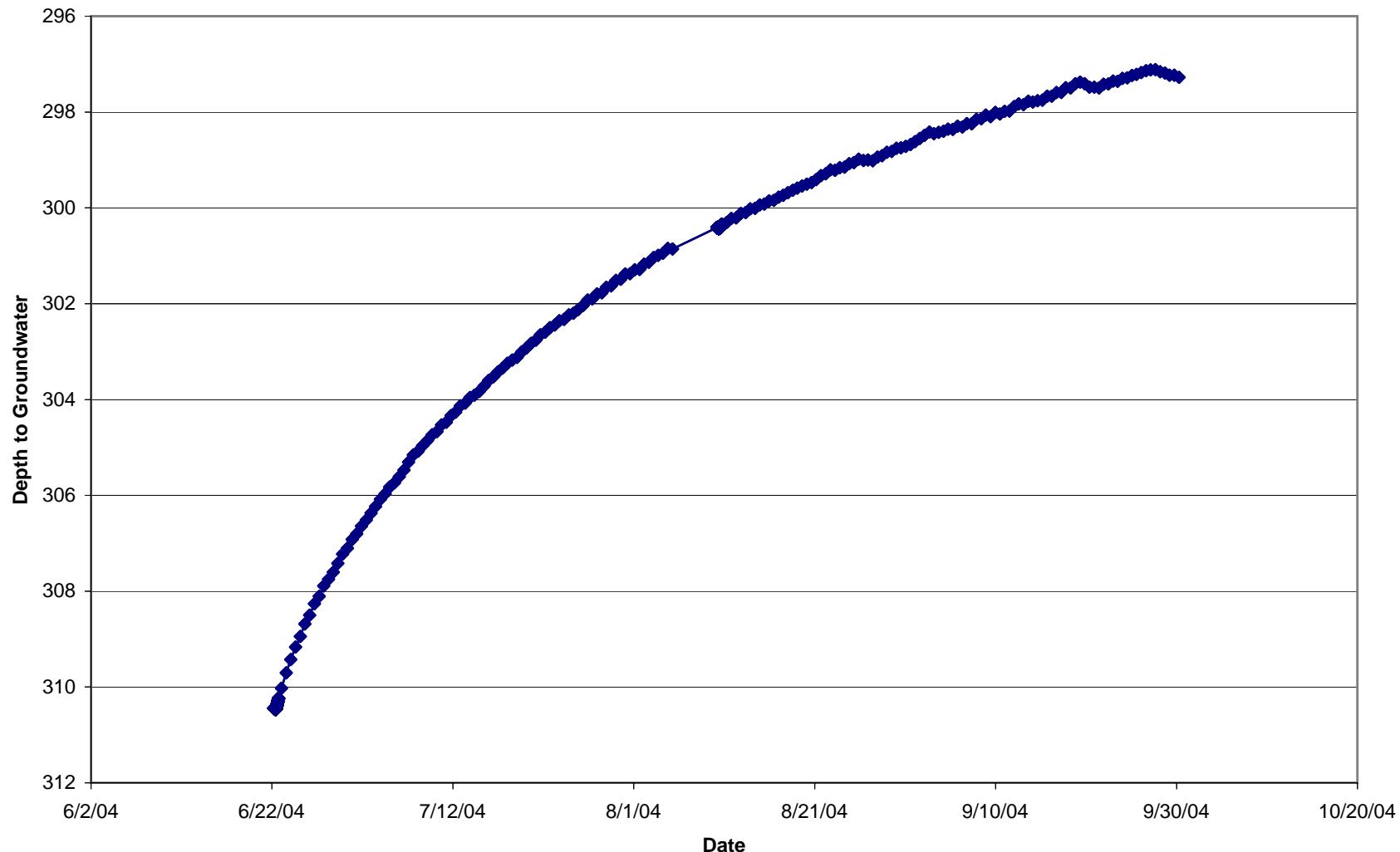
Water Level Recovery B-06



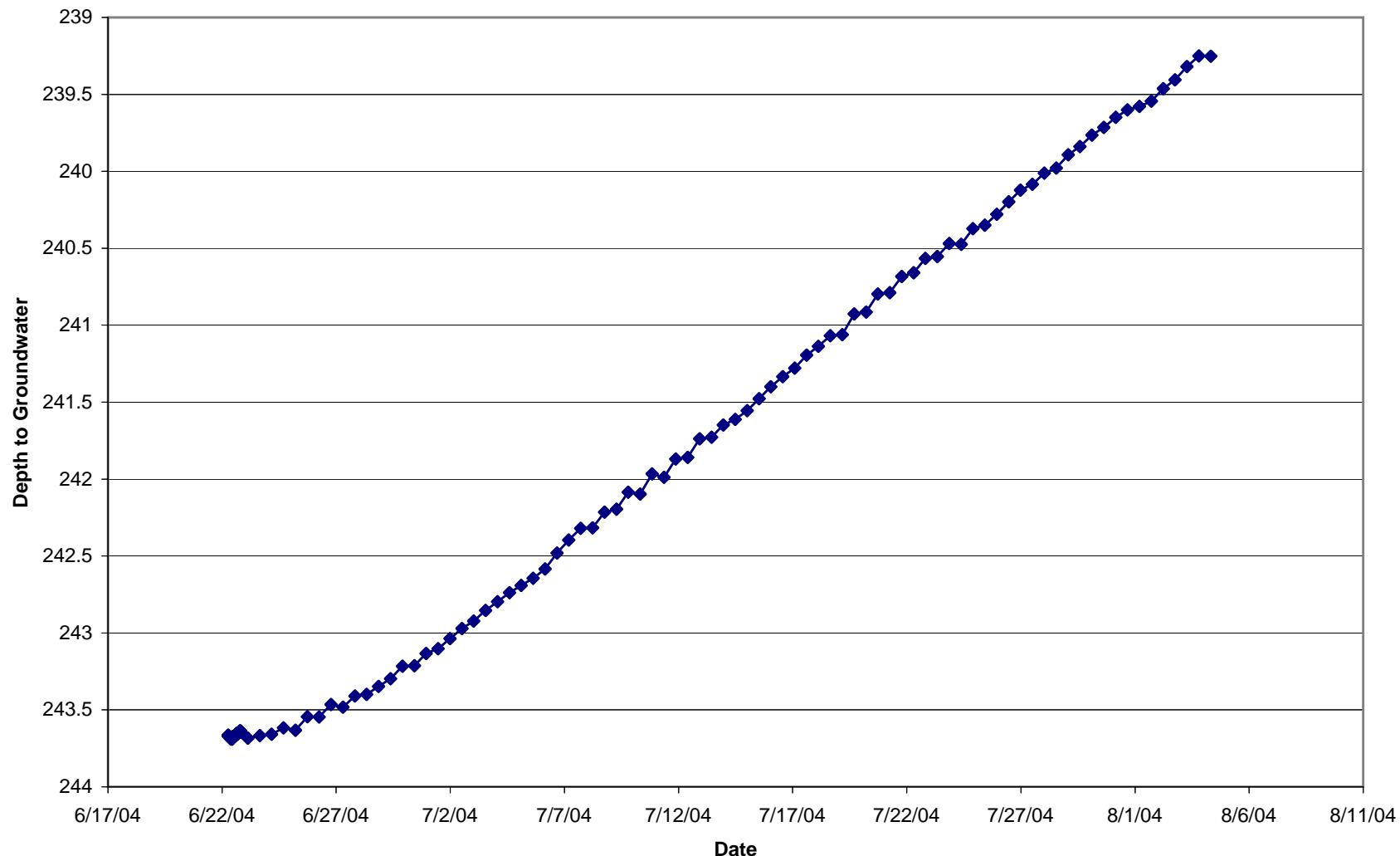
Water Level Recovery B-07



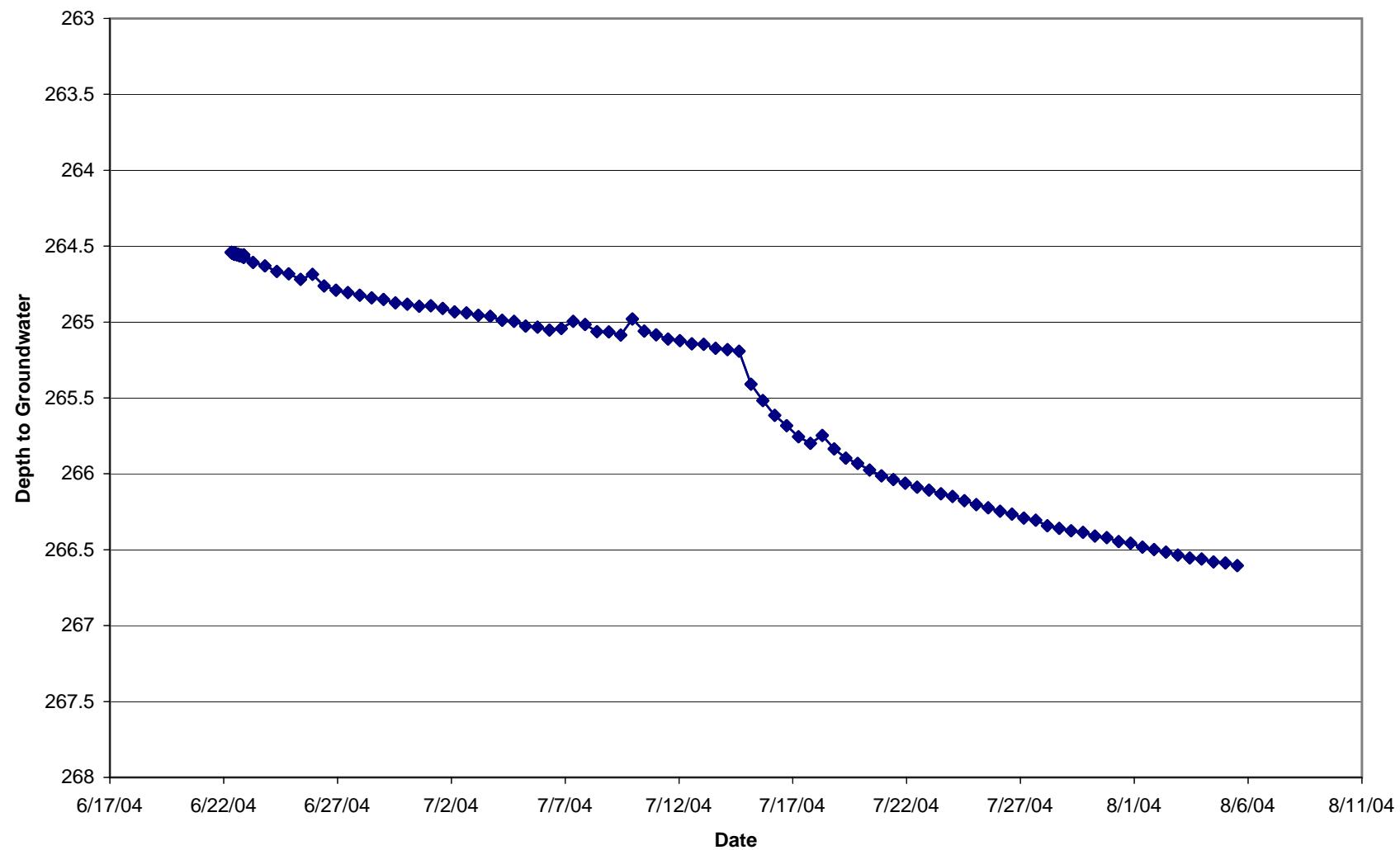
Water Level Recovery B-09



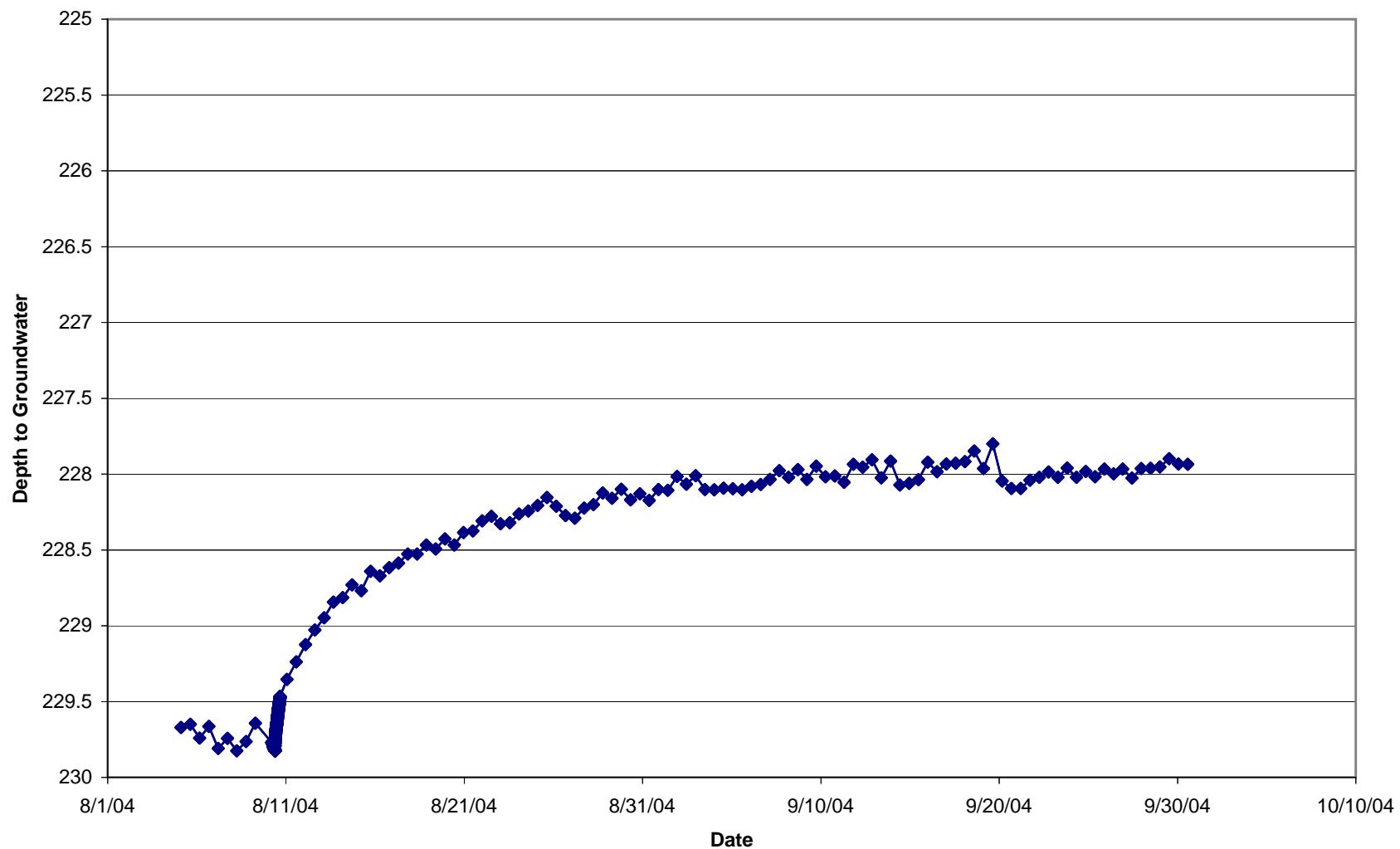
Water Level Recovery B-11



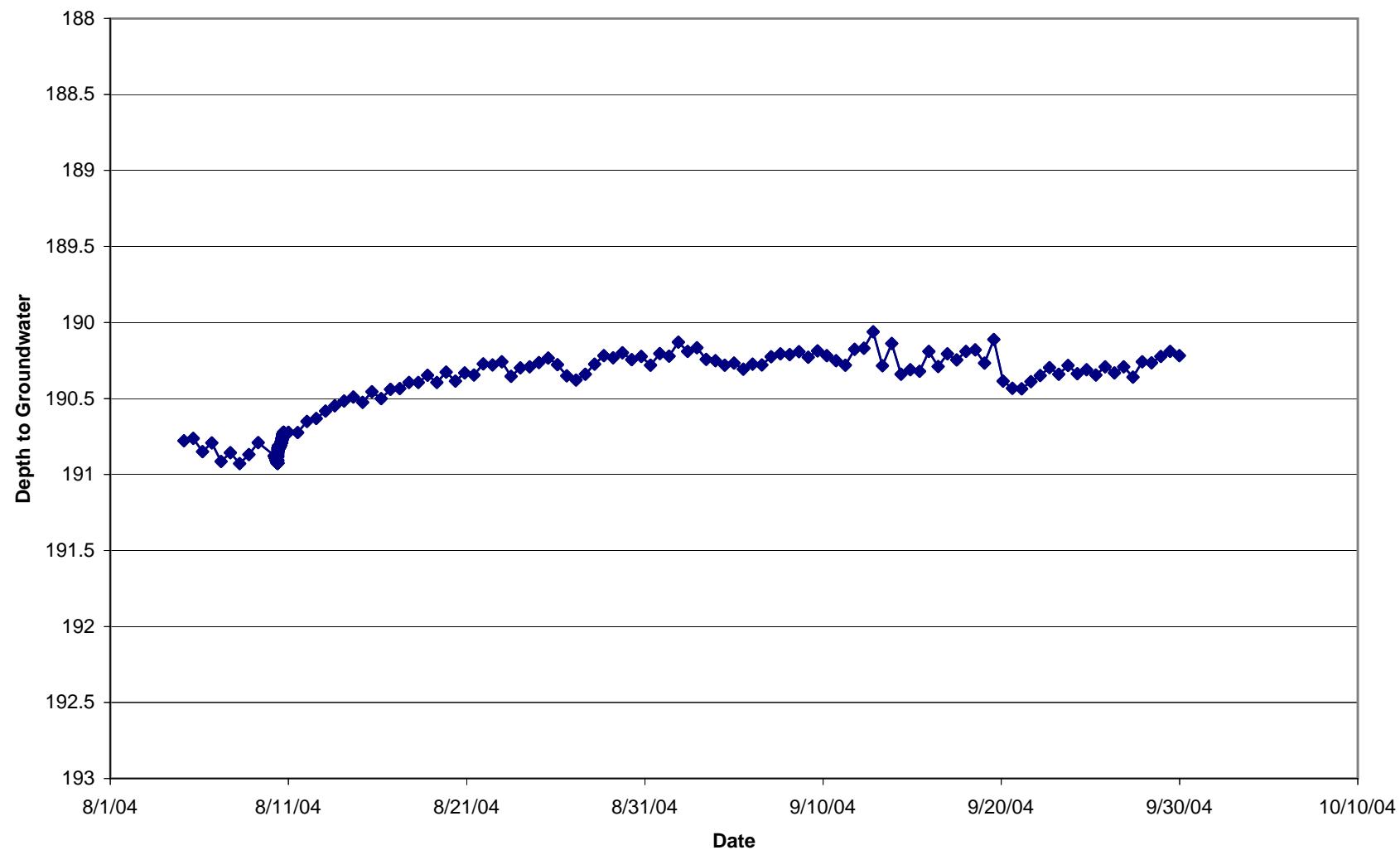
Water Level Recovery B-12



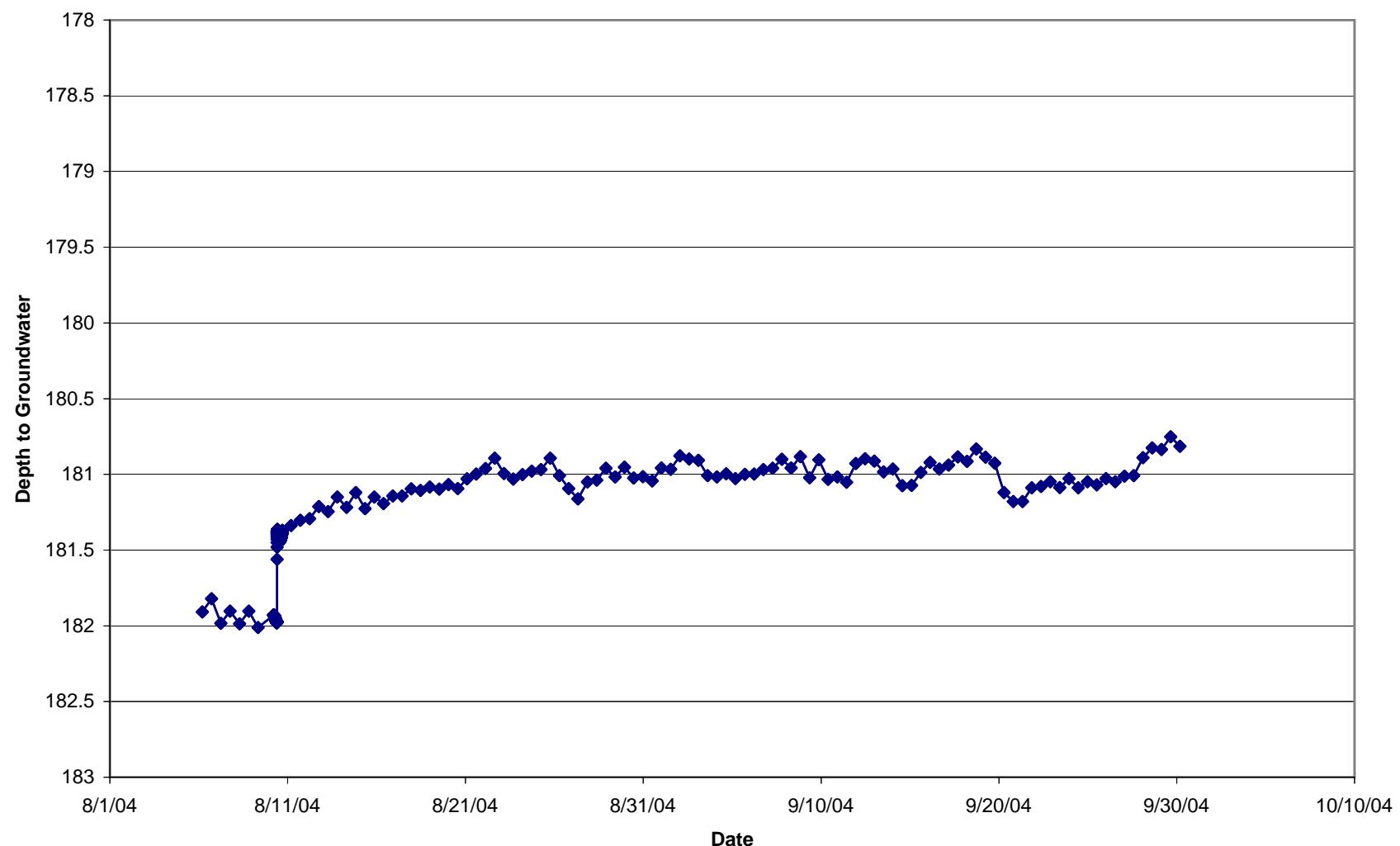
Water Level Recovery B-15



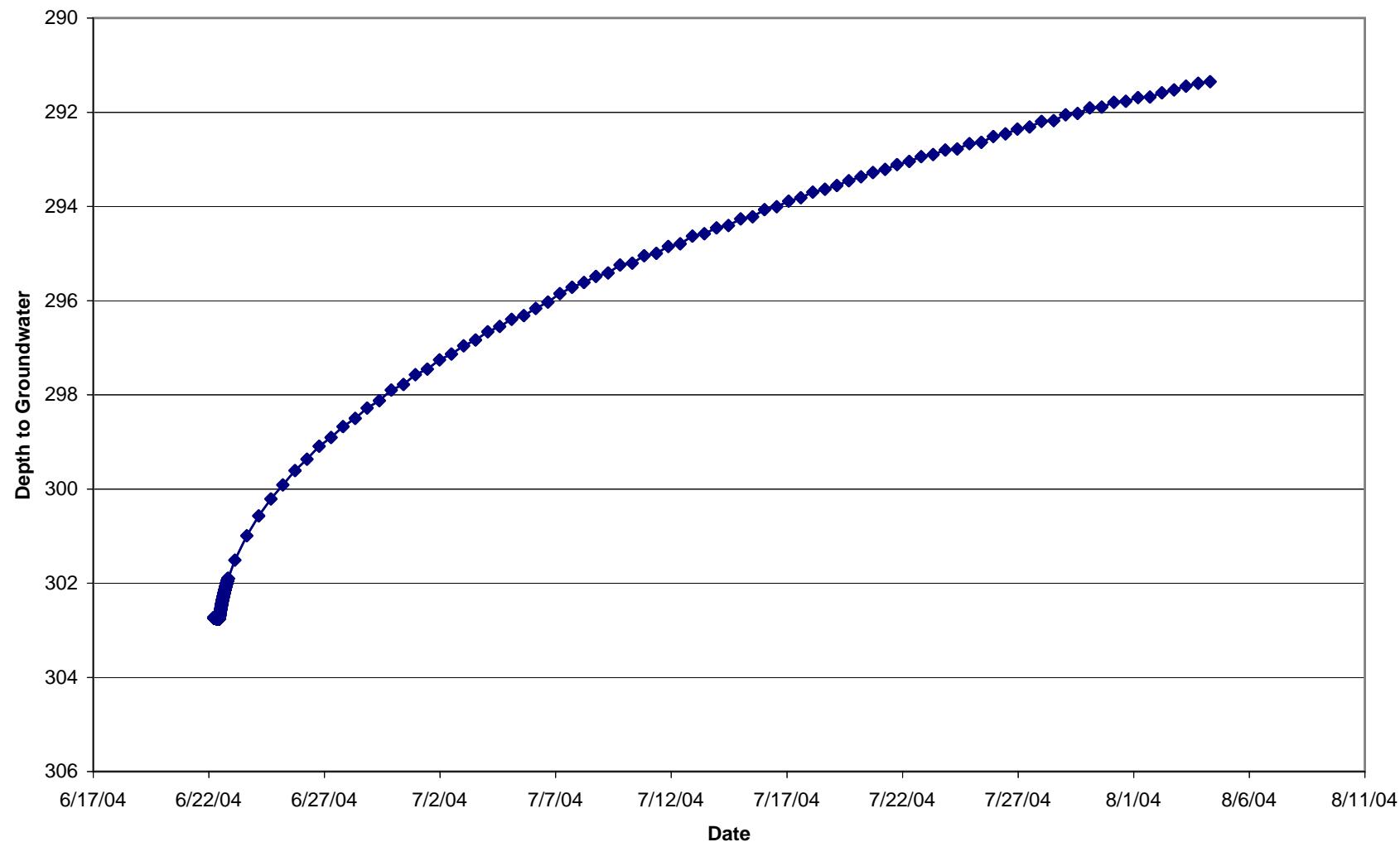
Water Level Recovery B-17



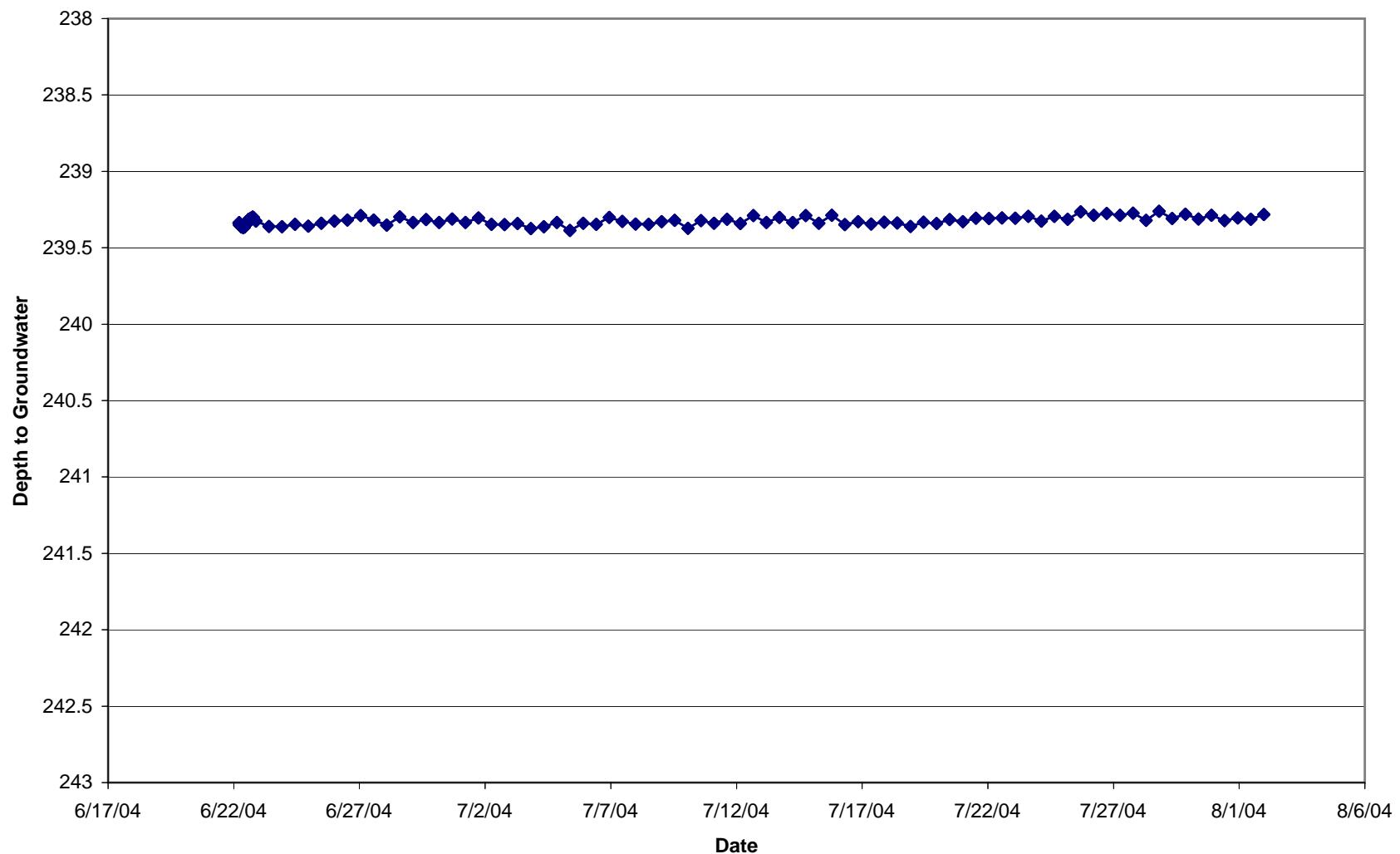
Water Level Recovery B-19



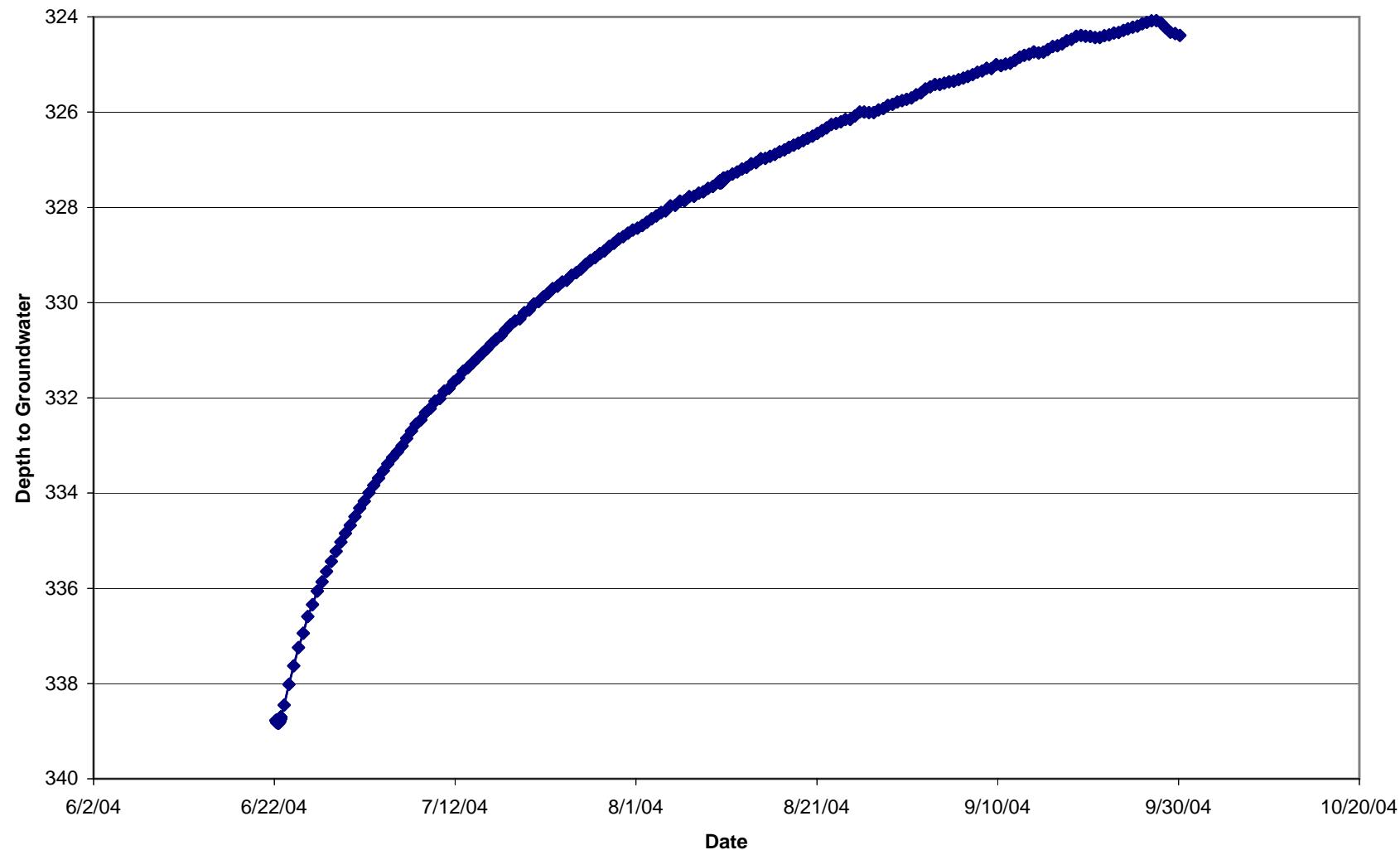
Water Level Recovery B-20



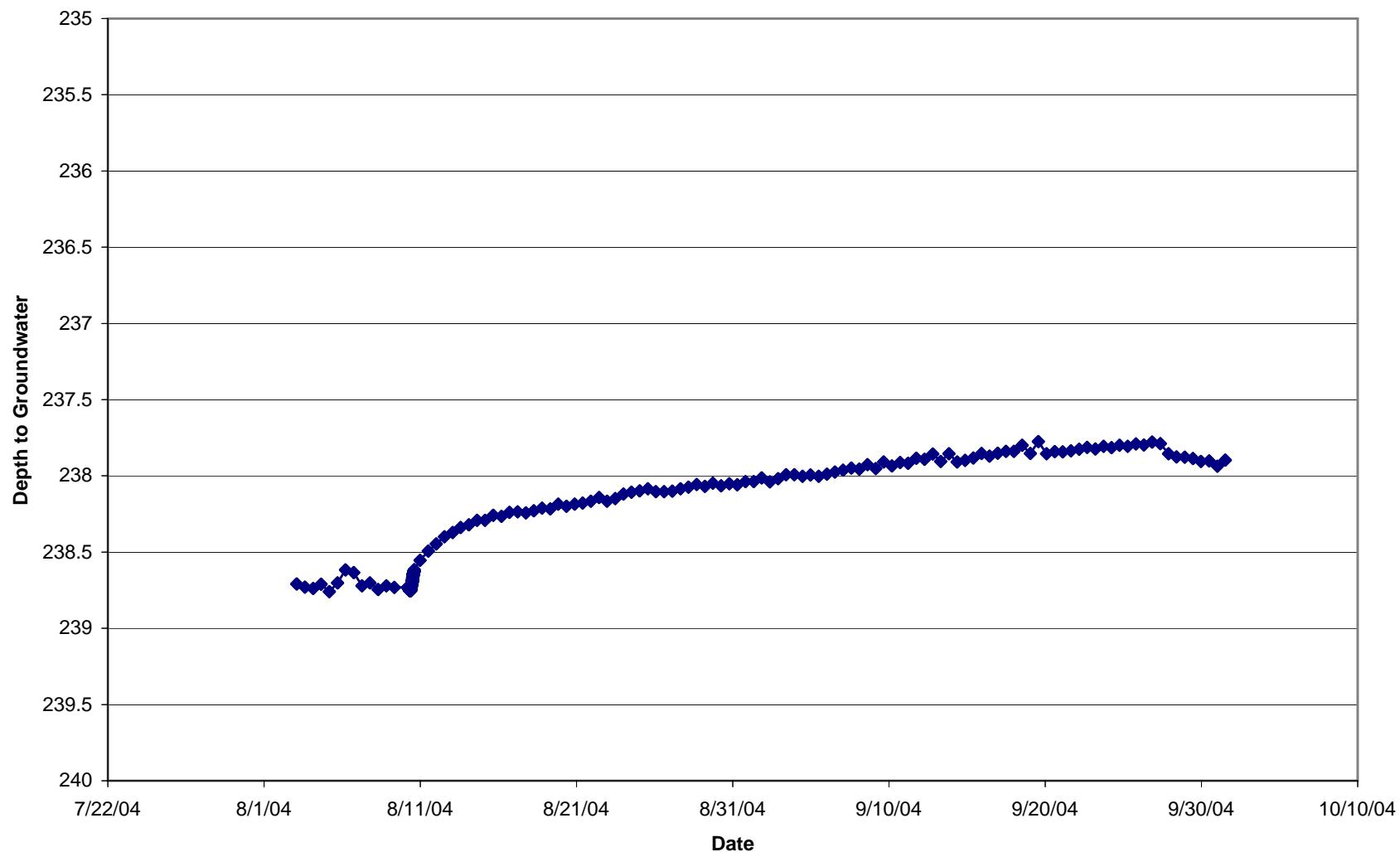
Water Level Recovery B-21



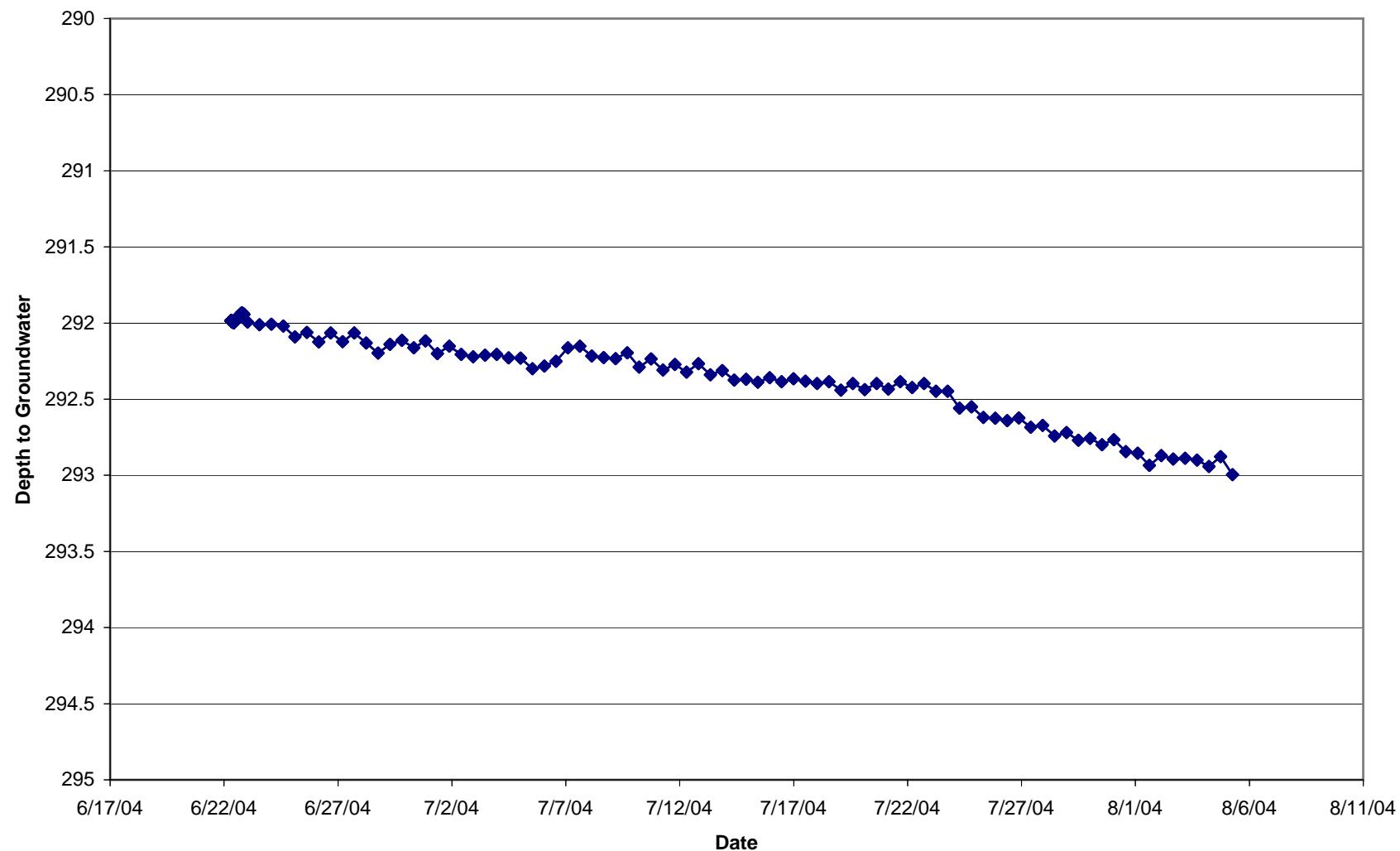
Water Level Recovery B-24



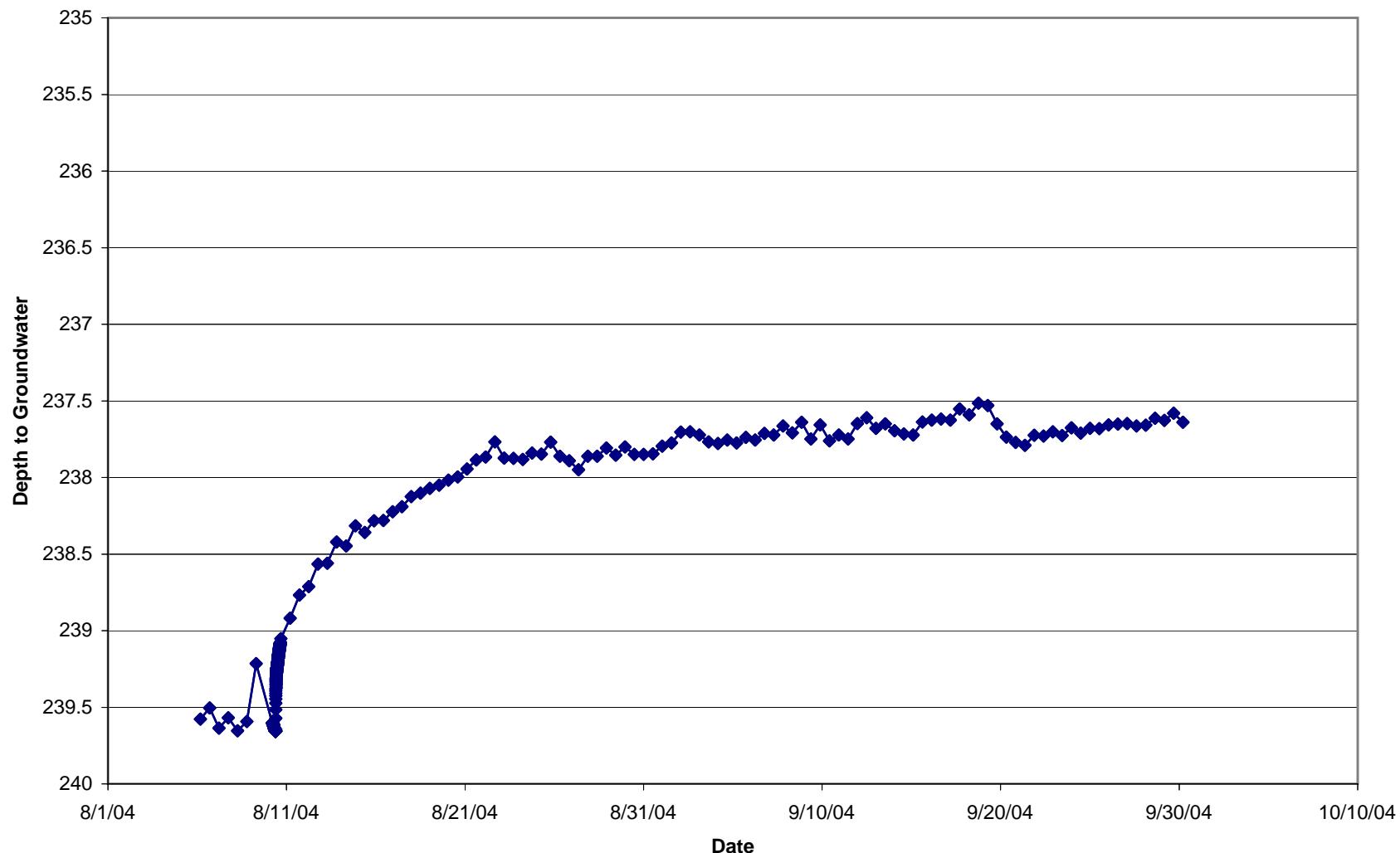
Water Level Recovery B-27



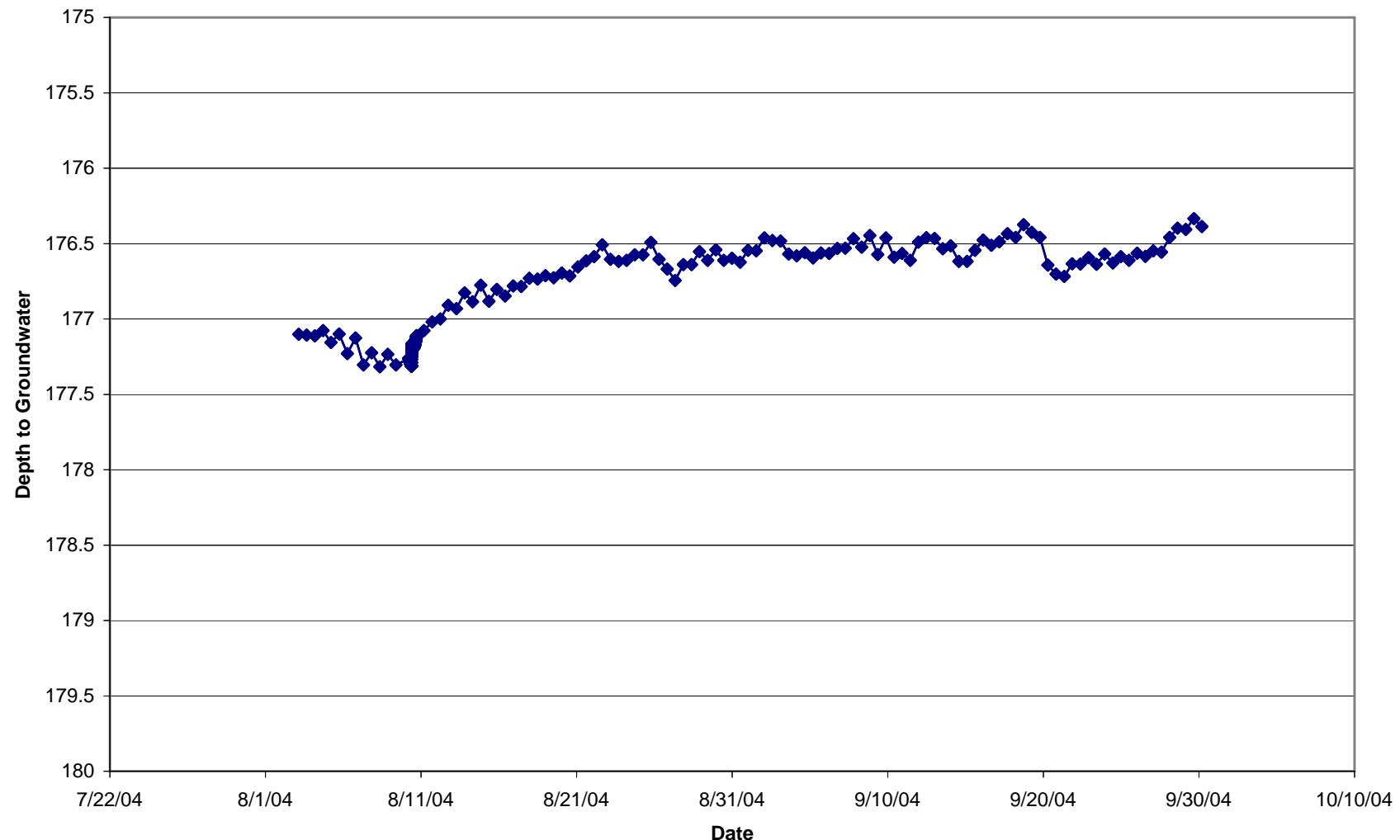
Water Level Recovery B-28



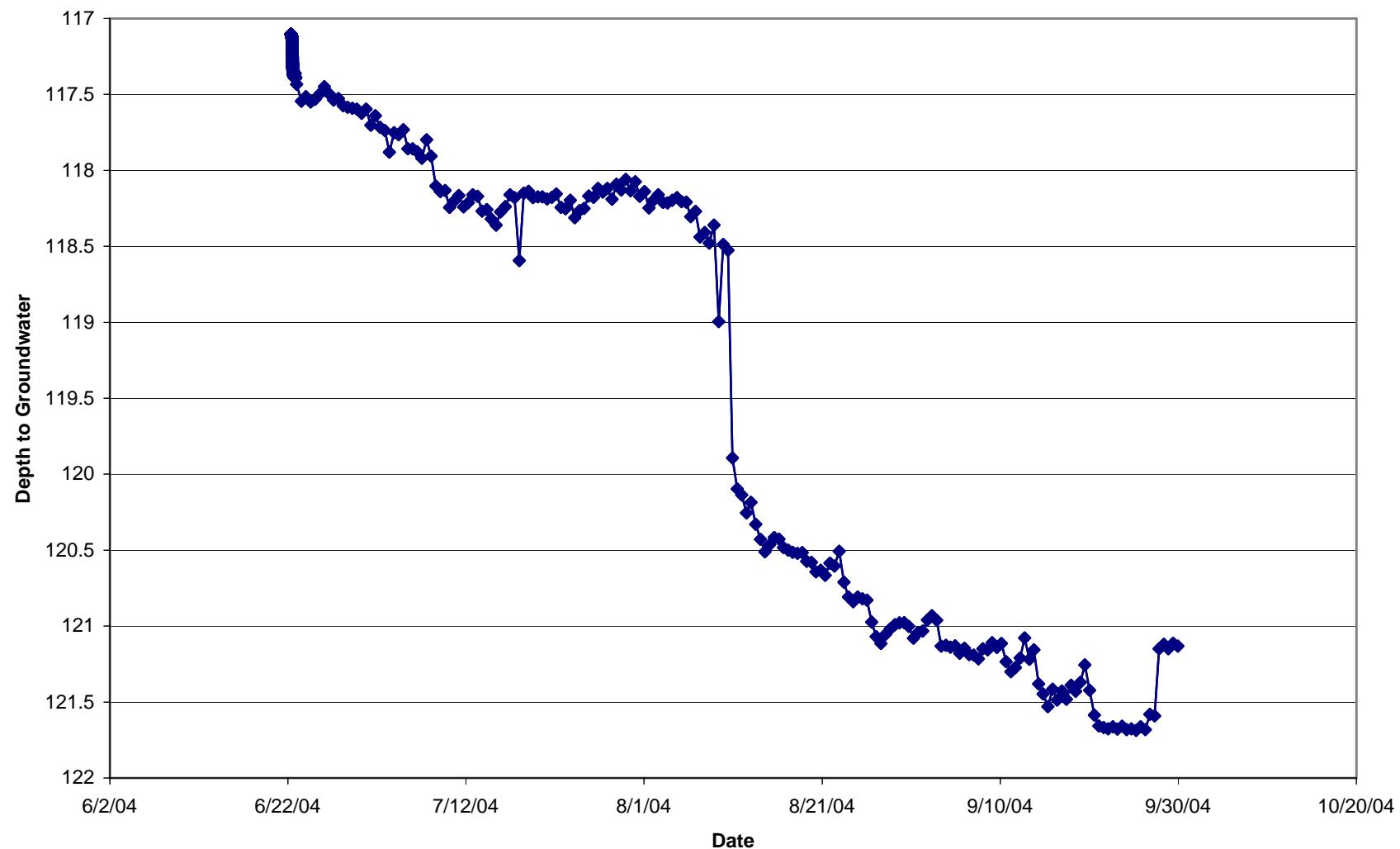
Depth to Groundwater B-29



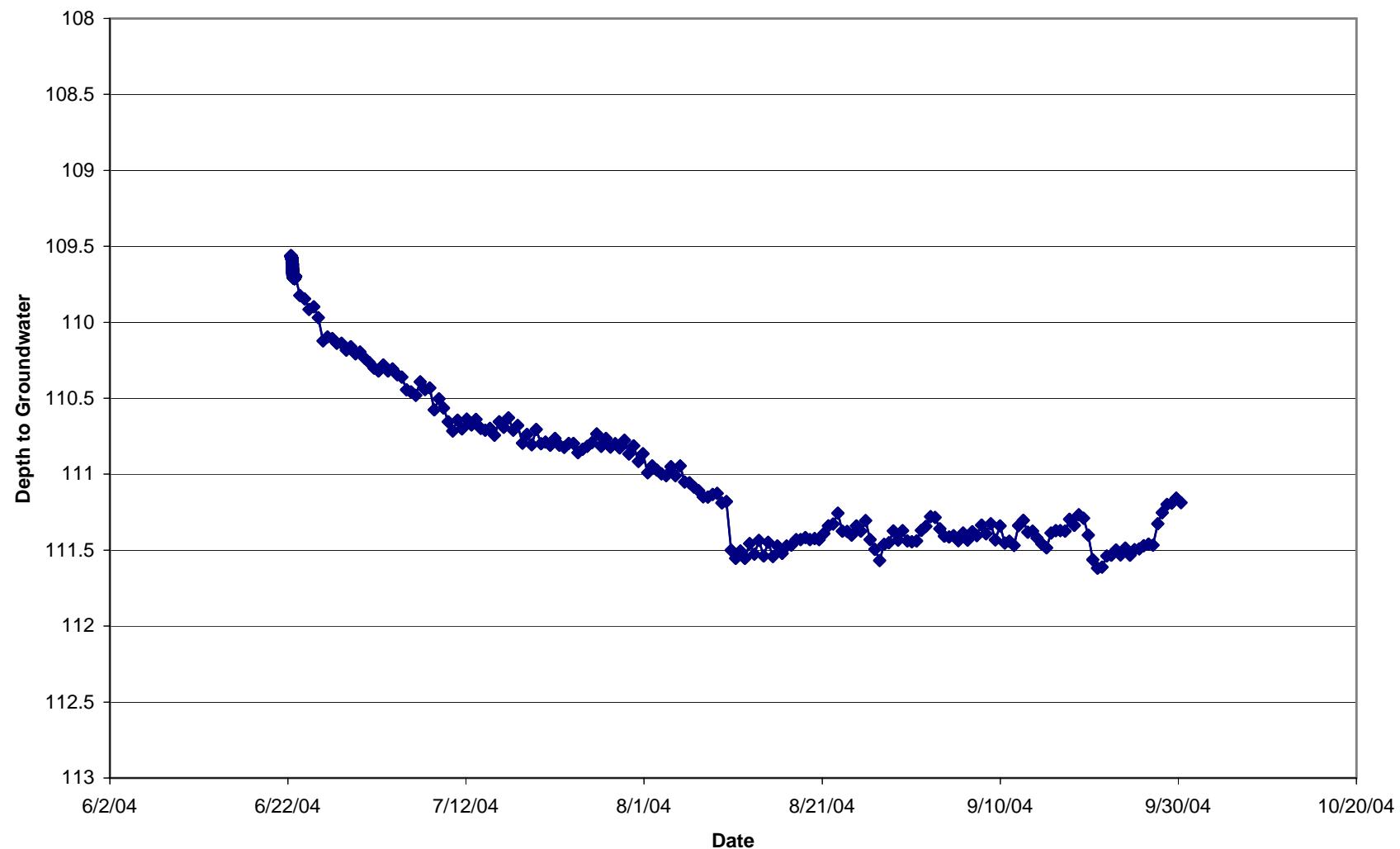
Water Level Recovery B-33



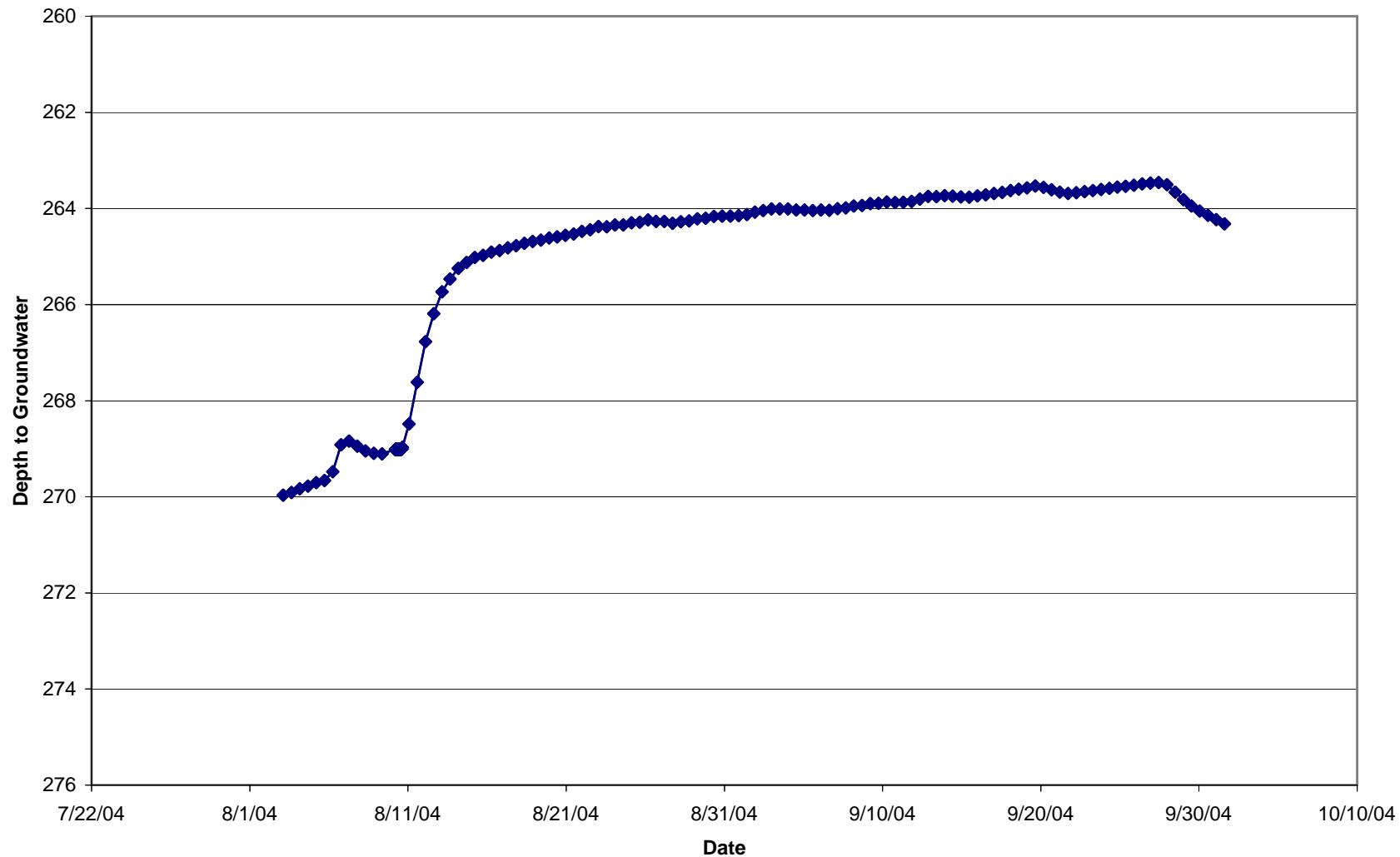
Water Level Recovery B-46



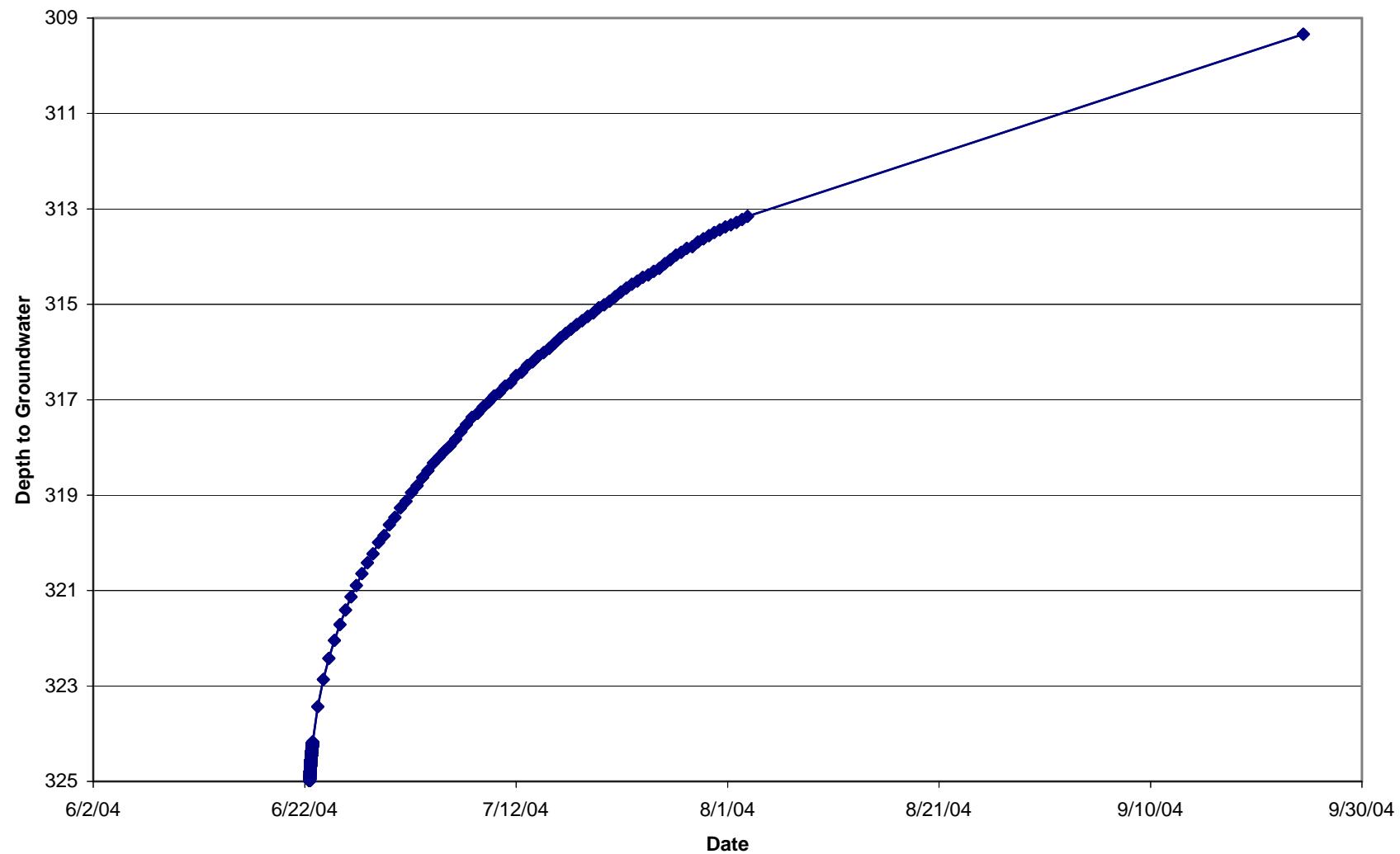
Water Level Recovery B-48



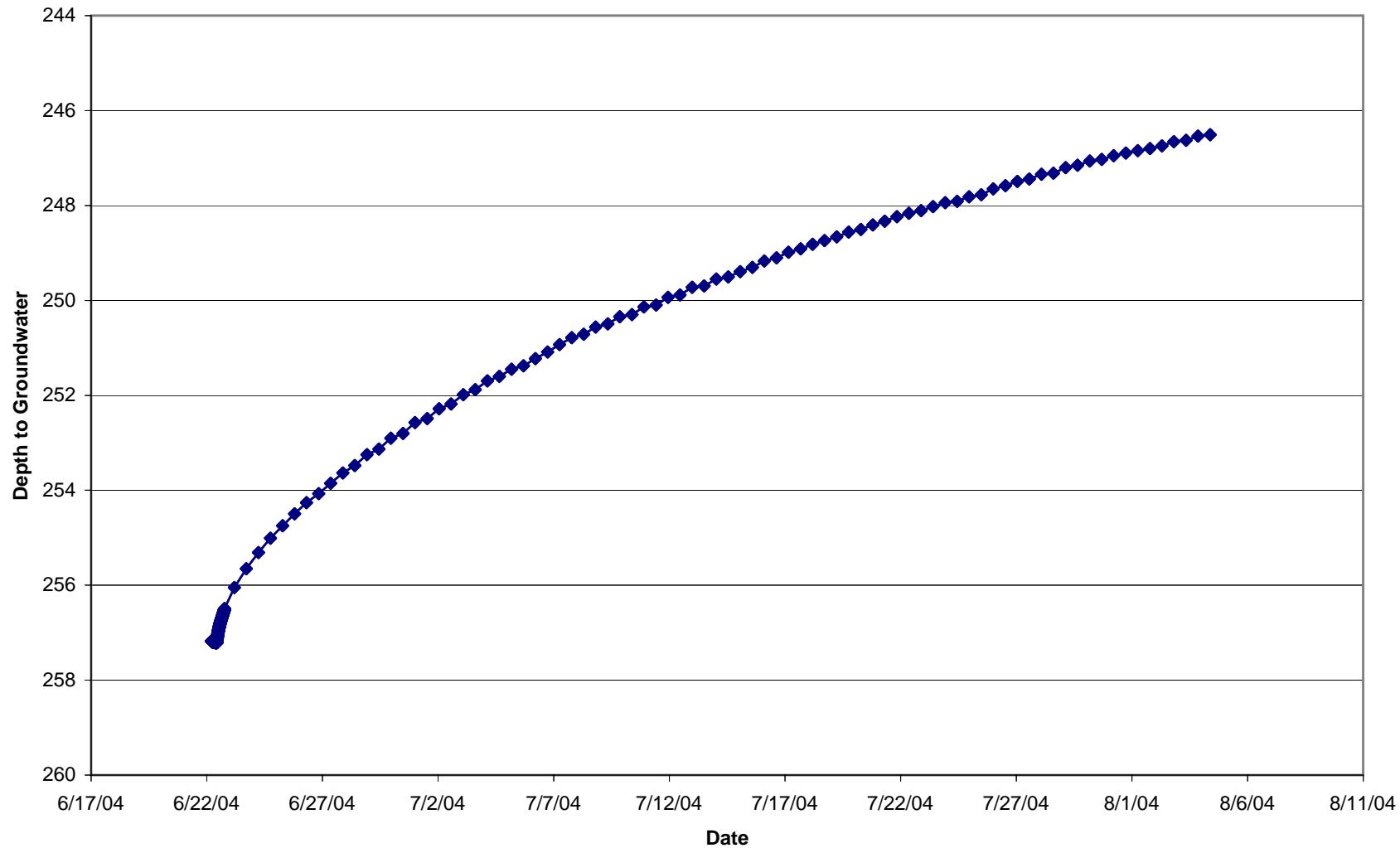
Water Level Recovery B-55



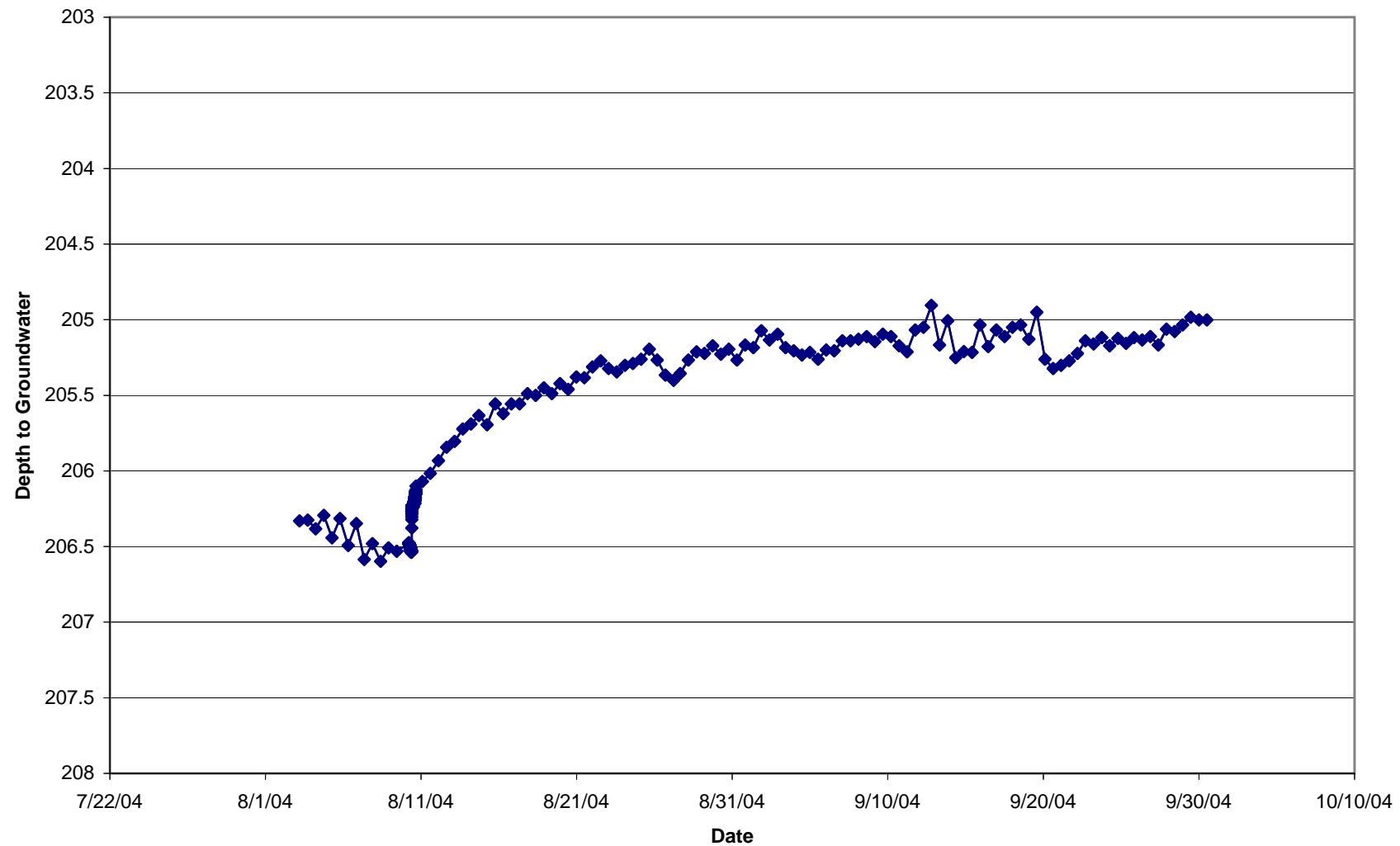
Water Level Recovery B-56



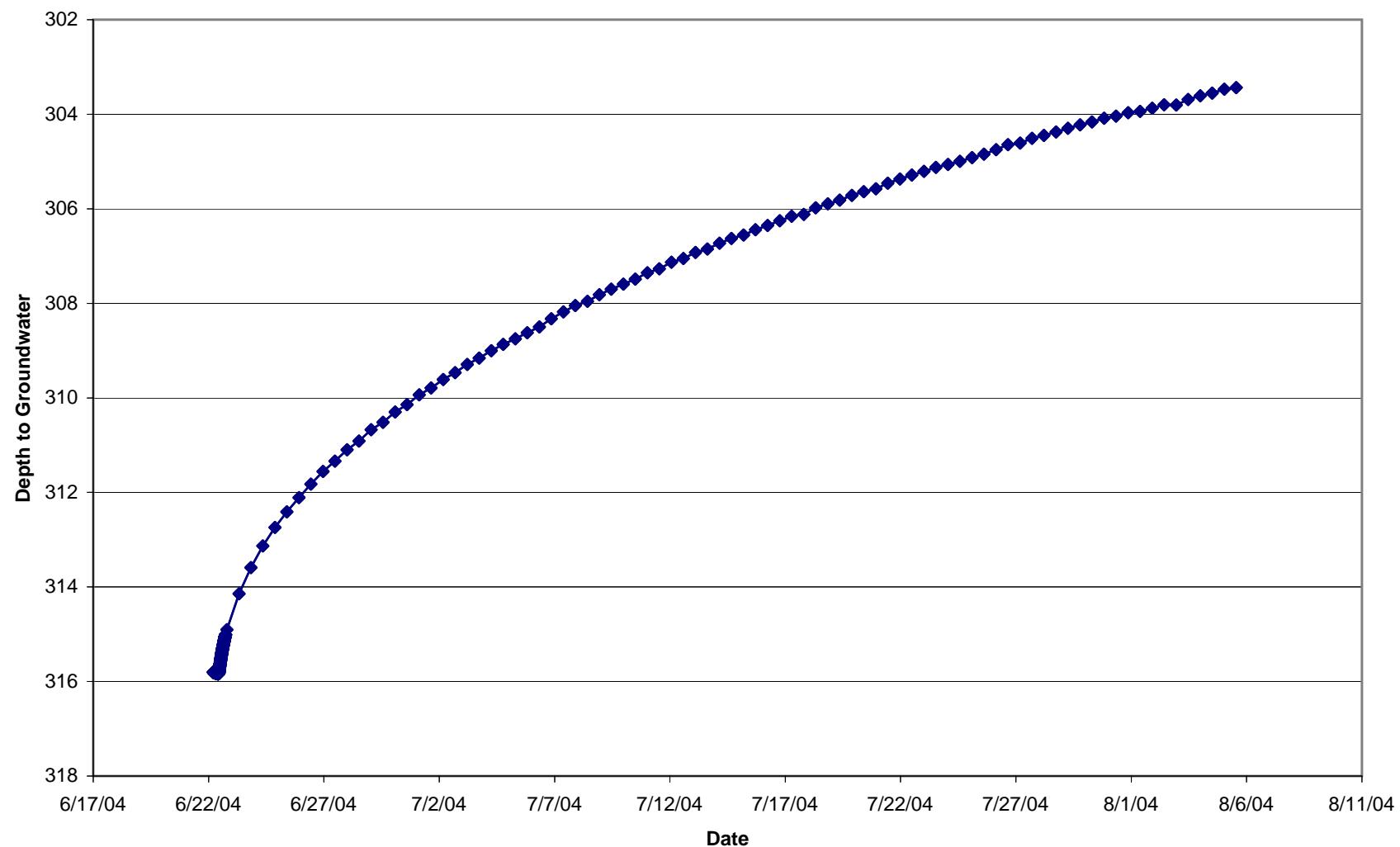
Water Level Recovery B-57



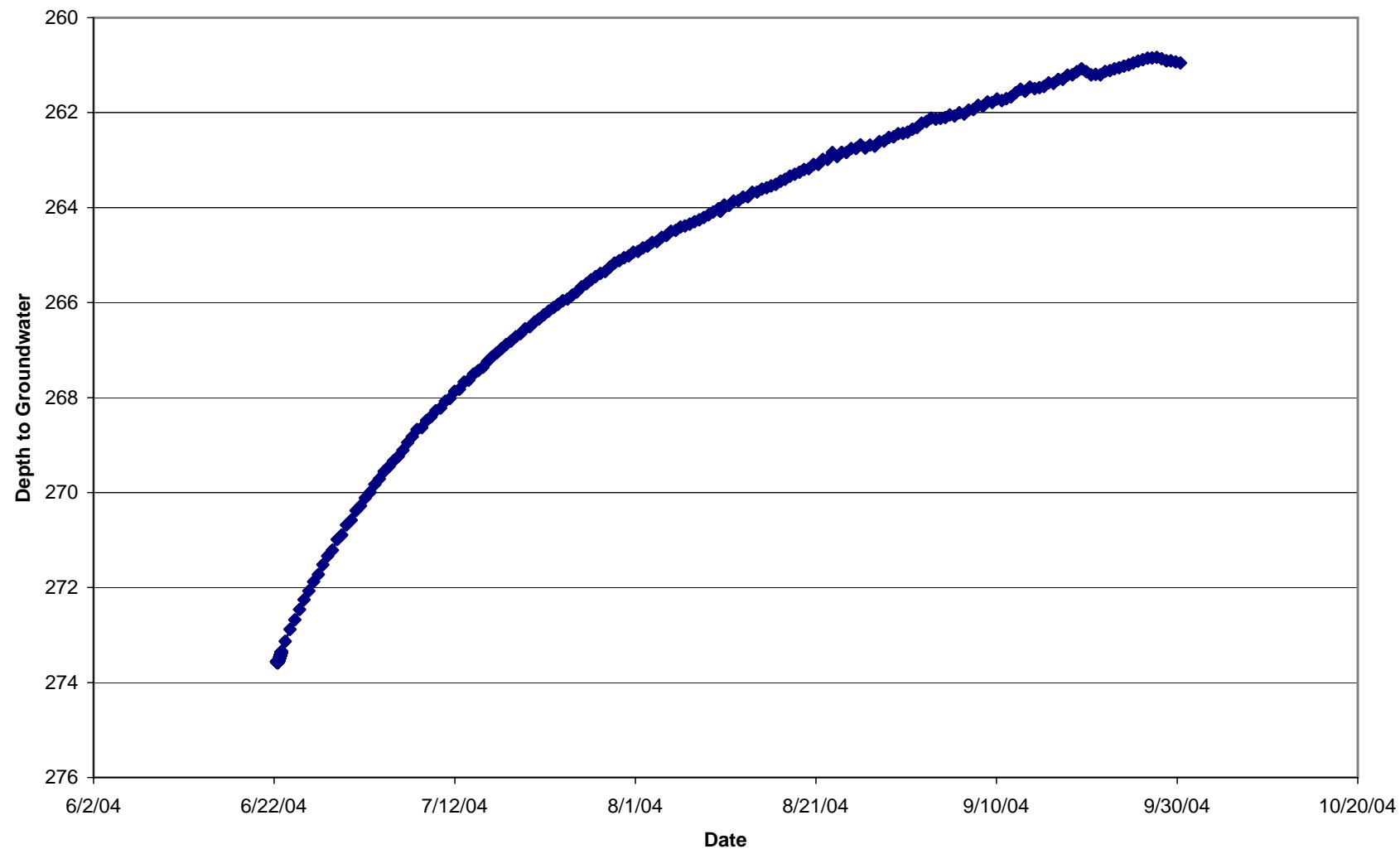
Water Level Recovery B-60



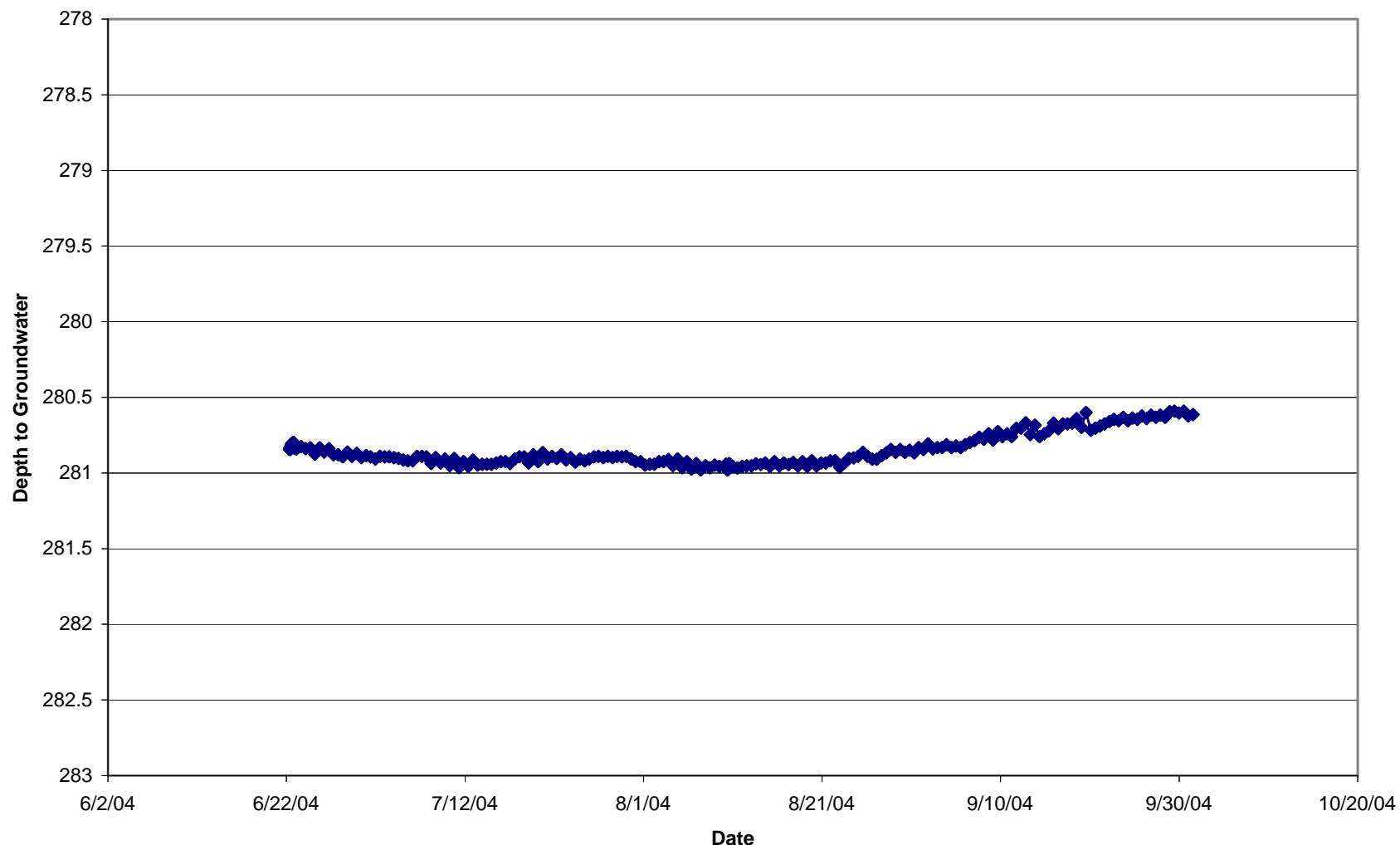
Water Level Recovery C-09



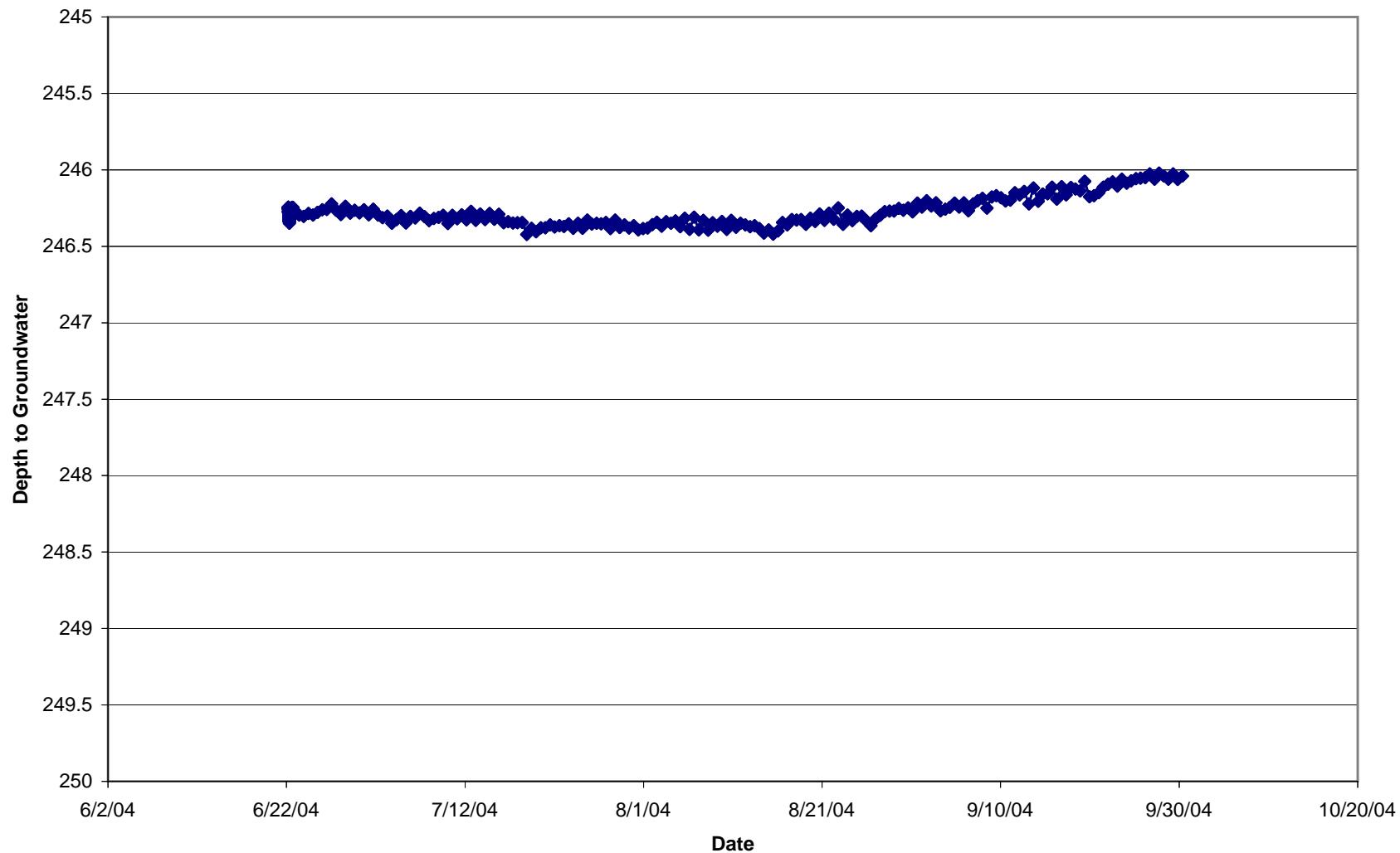
Water Level Recovery C-11



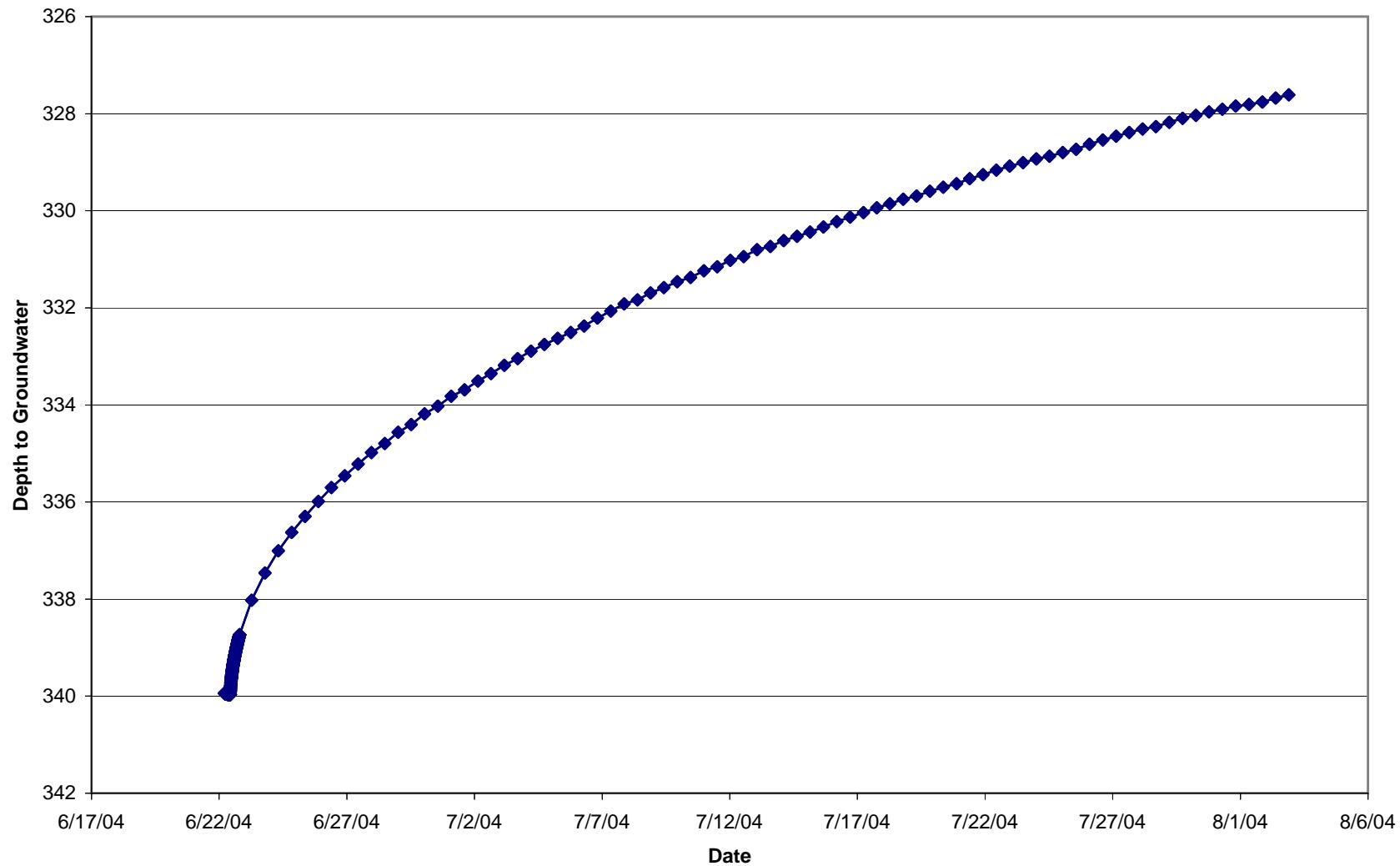
Water Level Recovery C-12



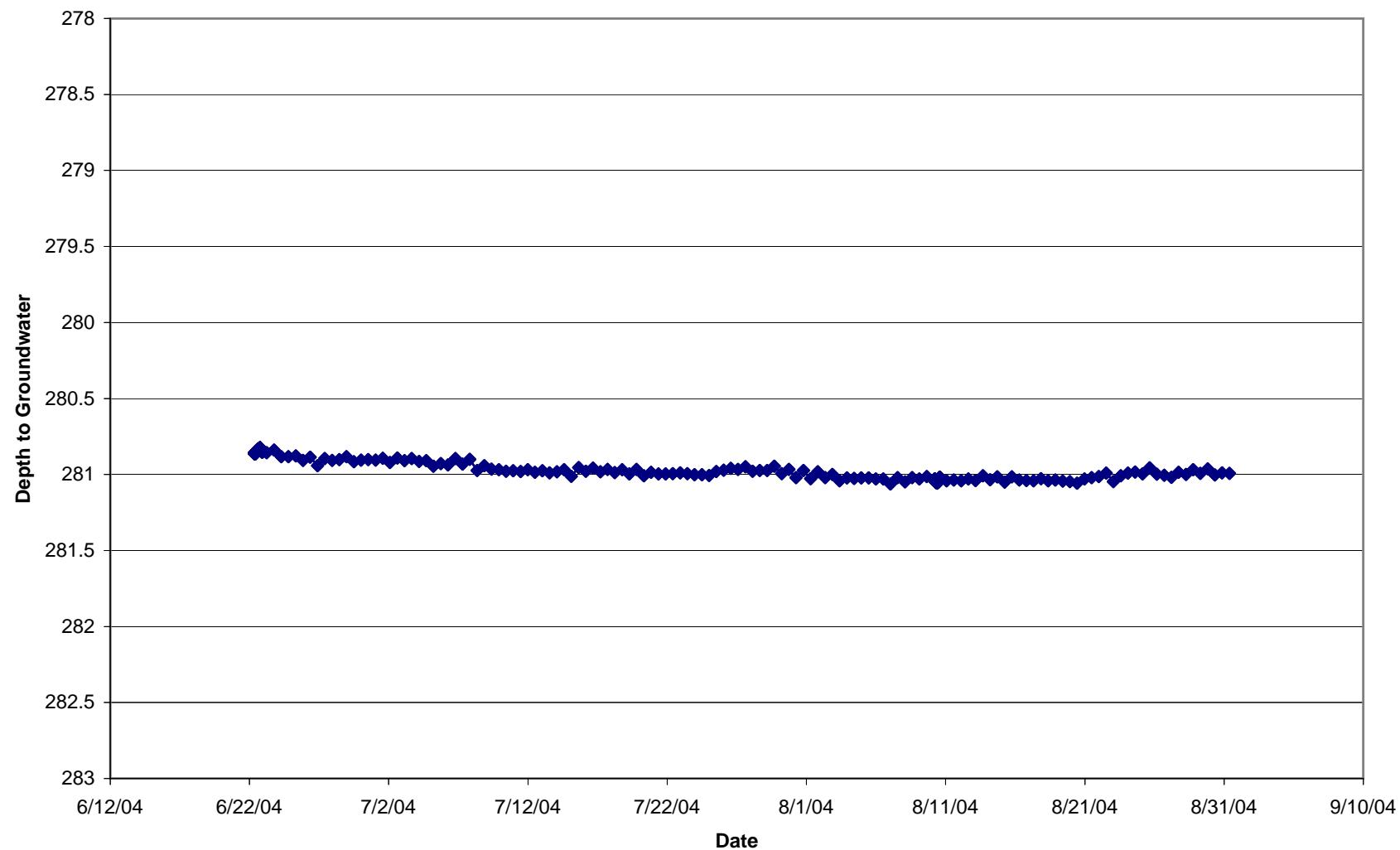
Water Level Recovery C-14



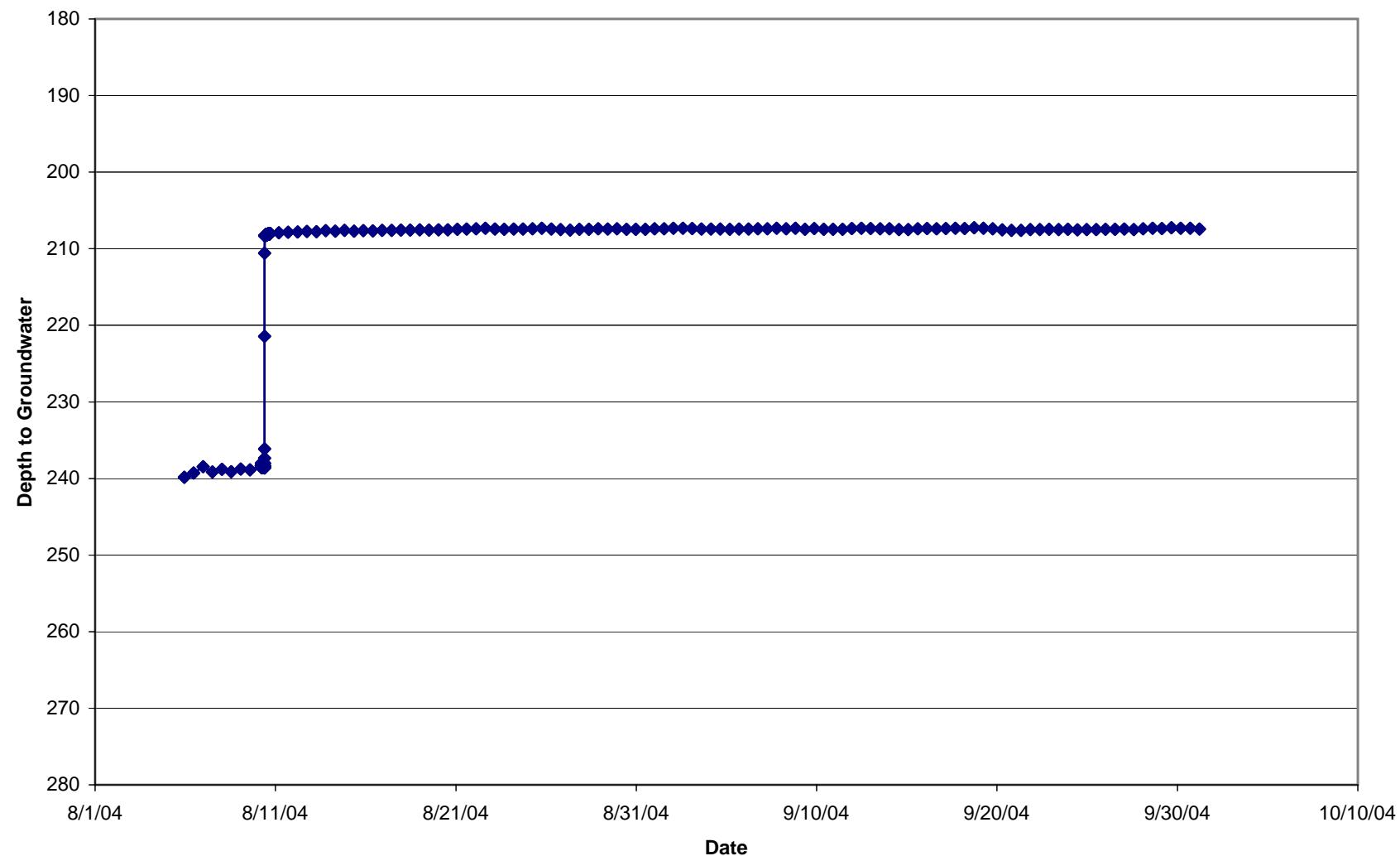
Water Level Recovery C-25



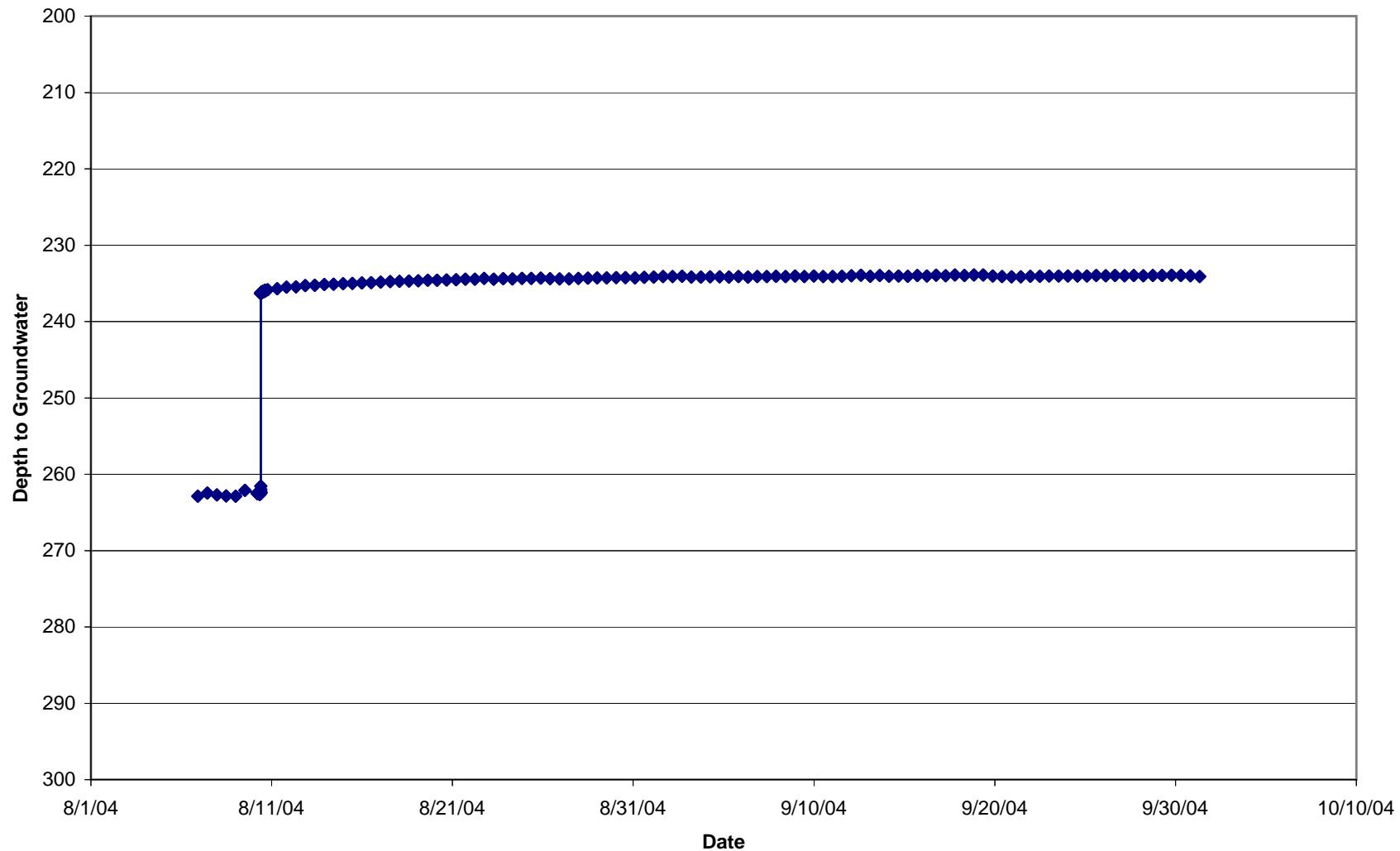
Water Level Recovery C-38



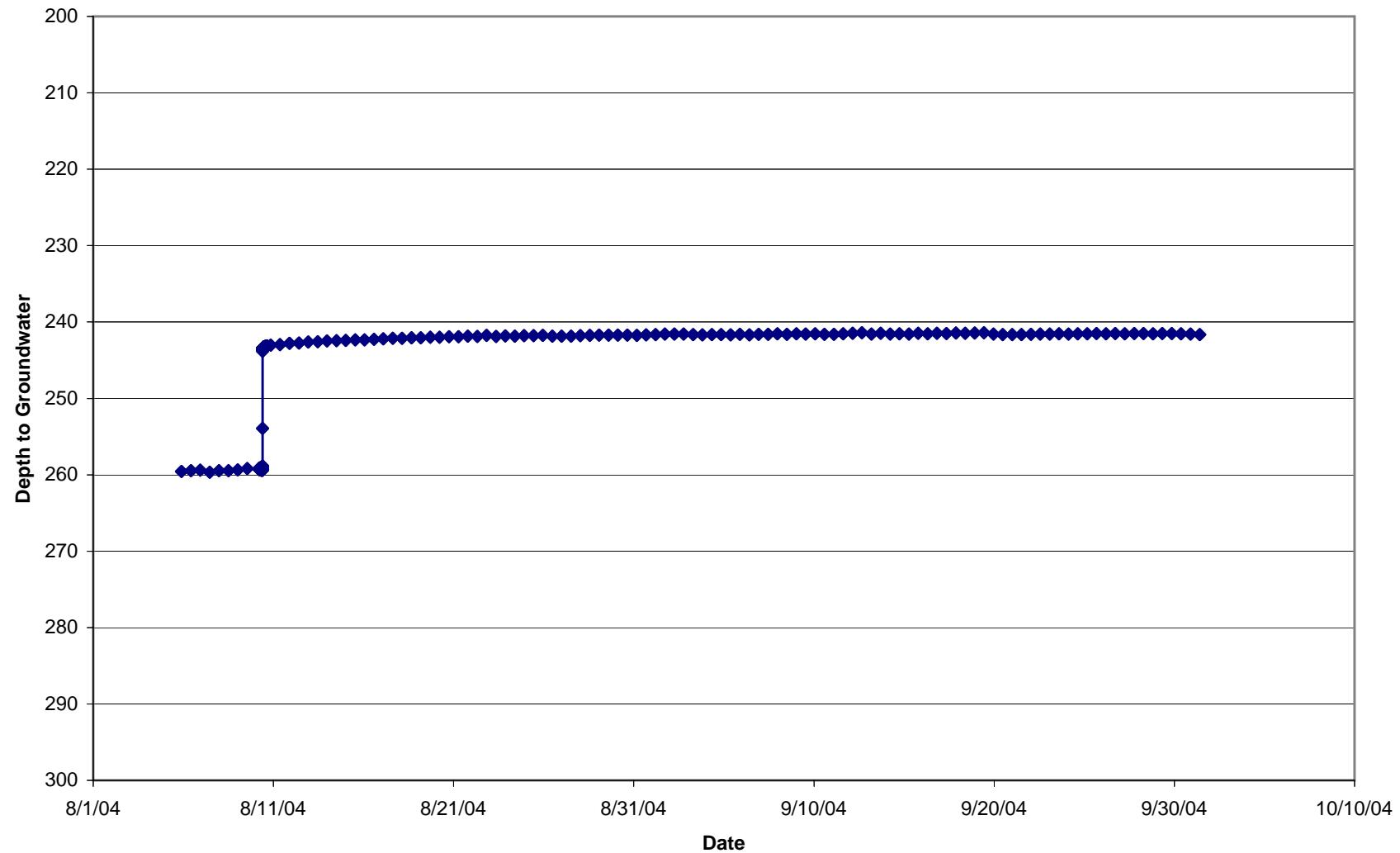
Water Level Recovery E-01



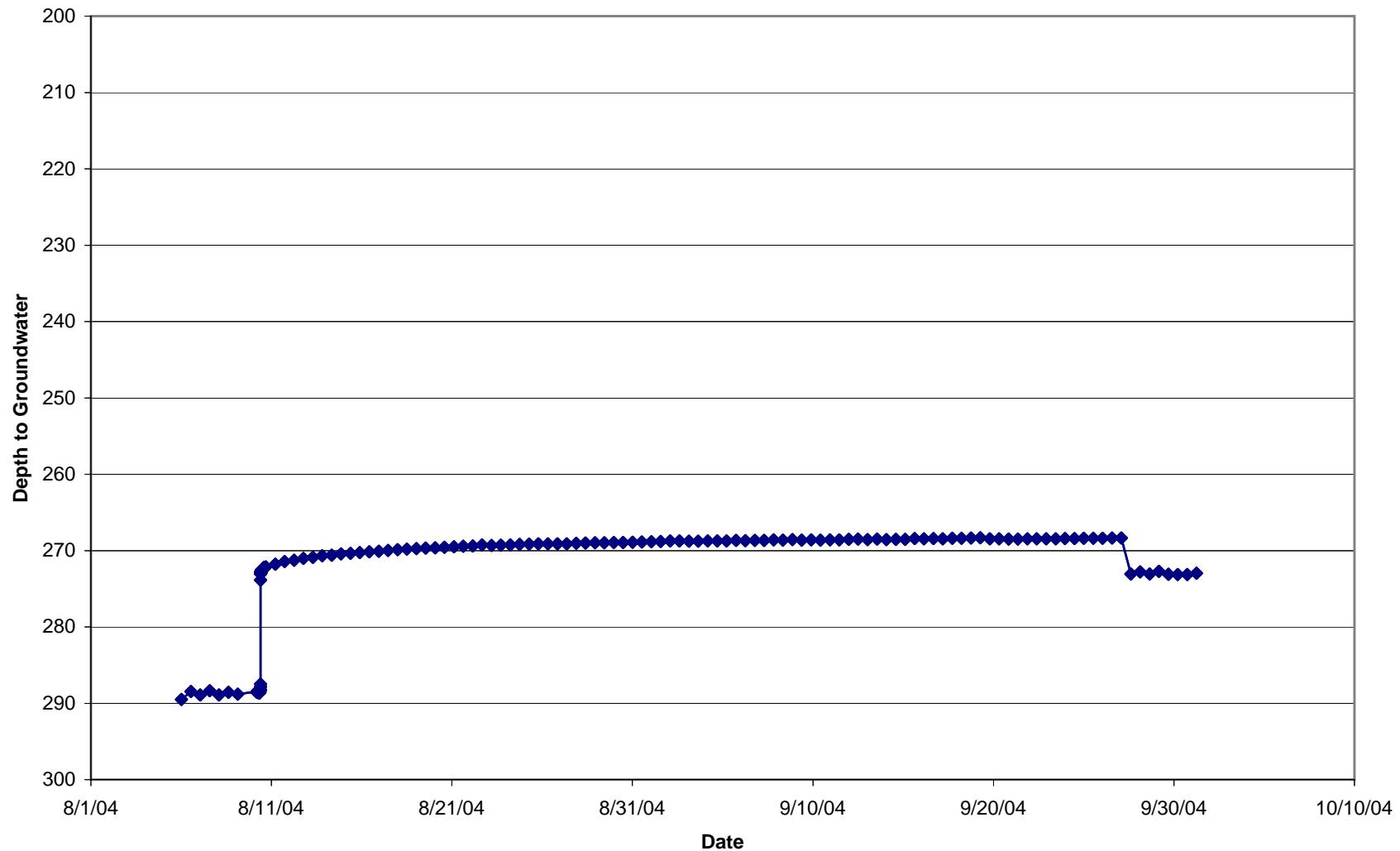
Water Level Recovery E-2-1



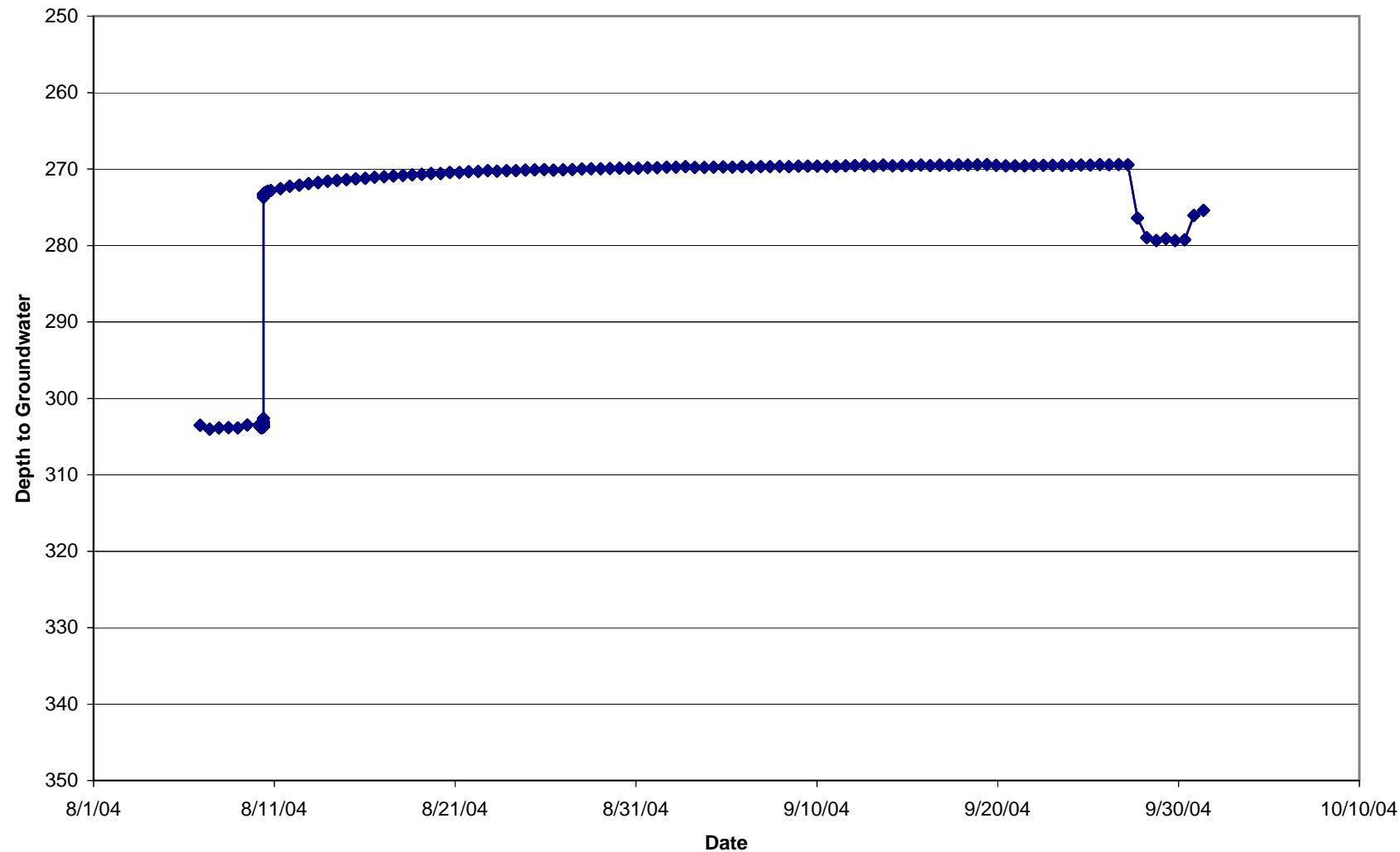
Water Level Recovery E-2-2



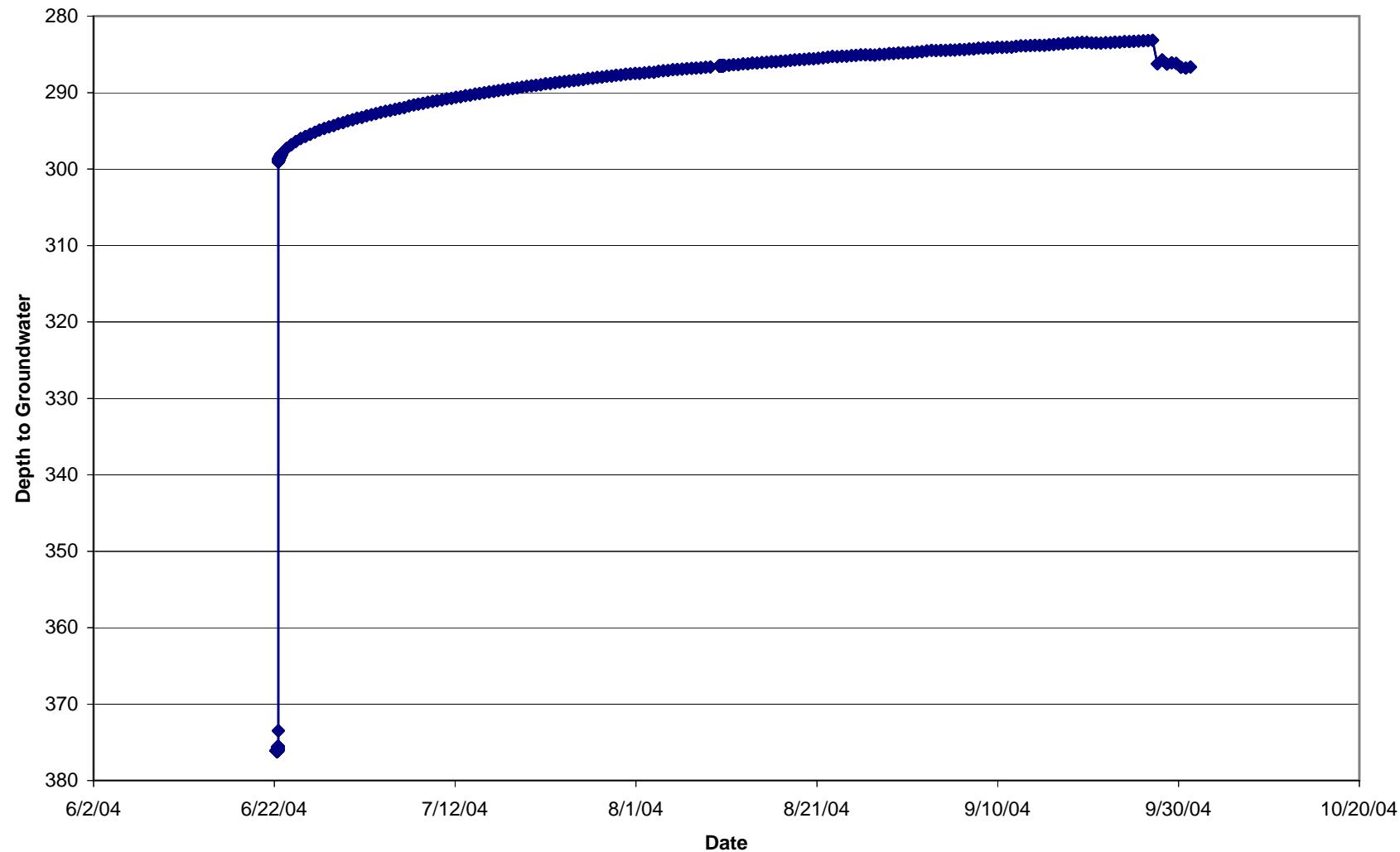
Water Level Recovery E-3-1



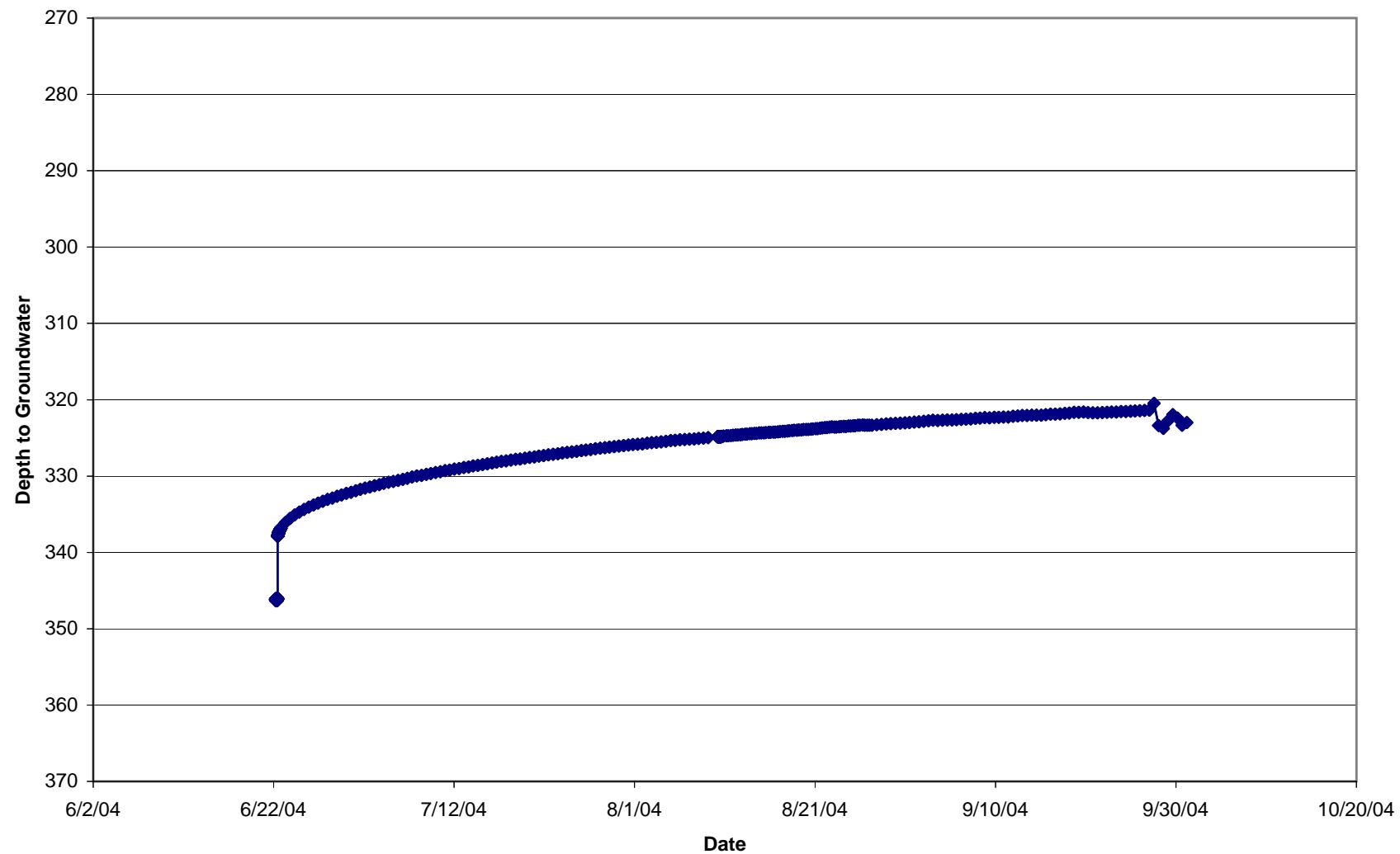
Water Level Recovery E-3-2



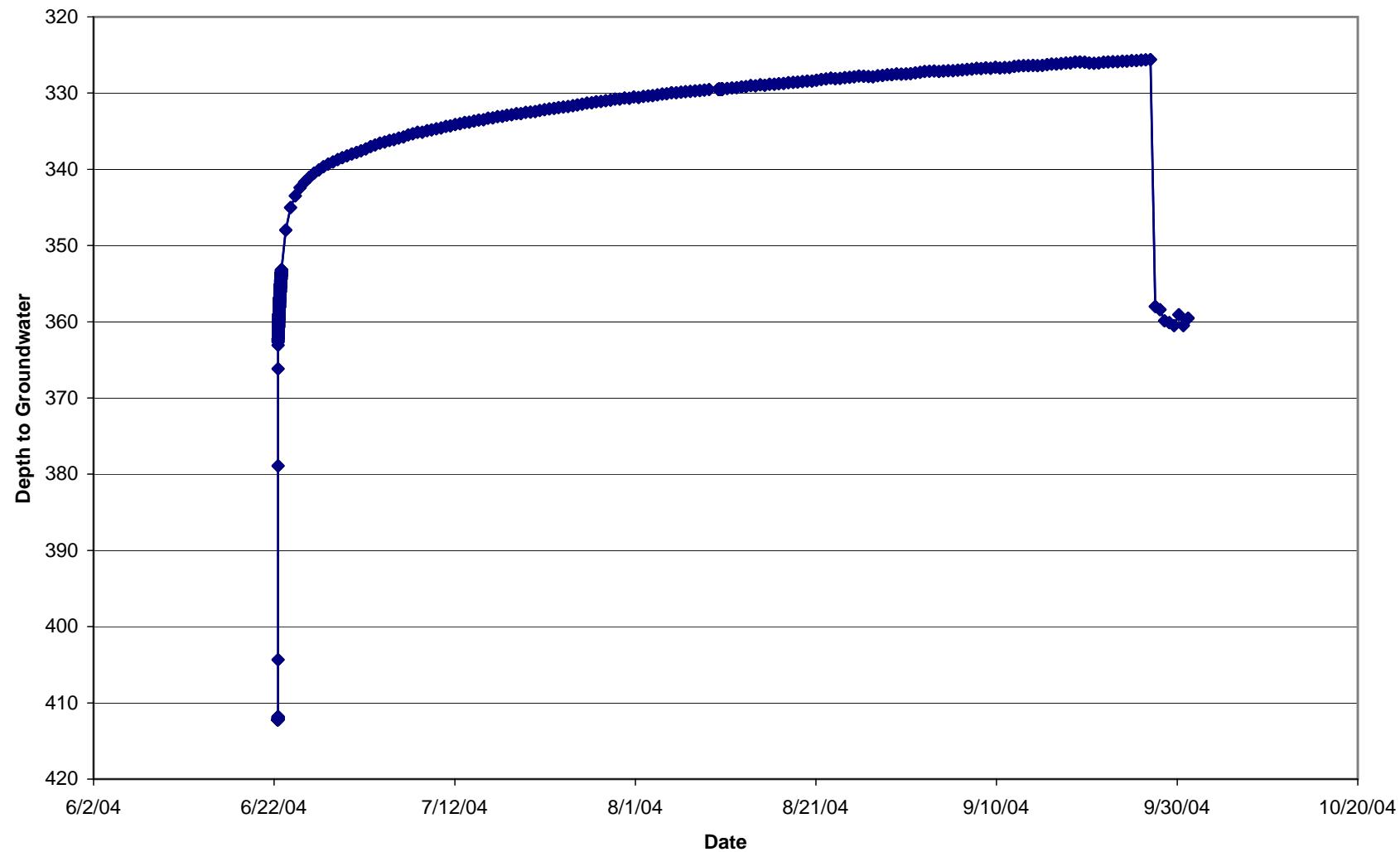
Water Level Recovery E-04



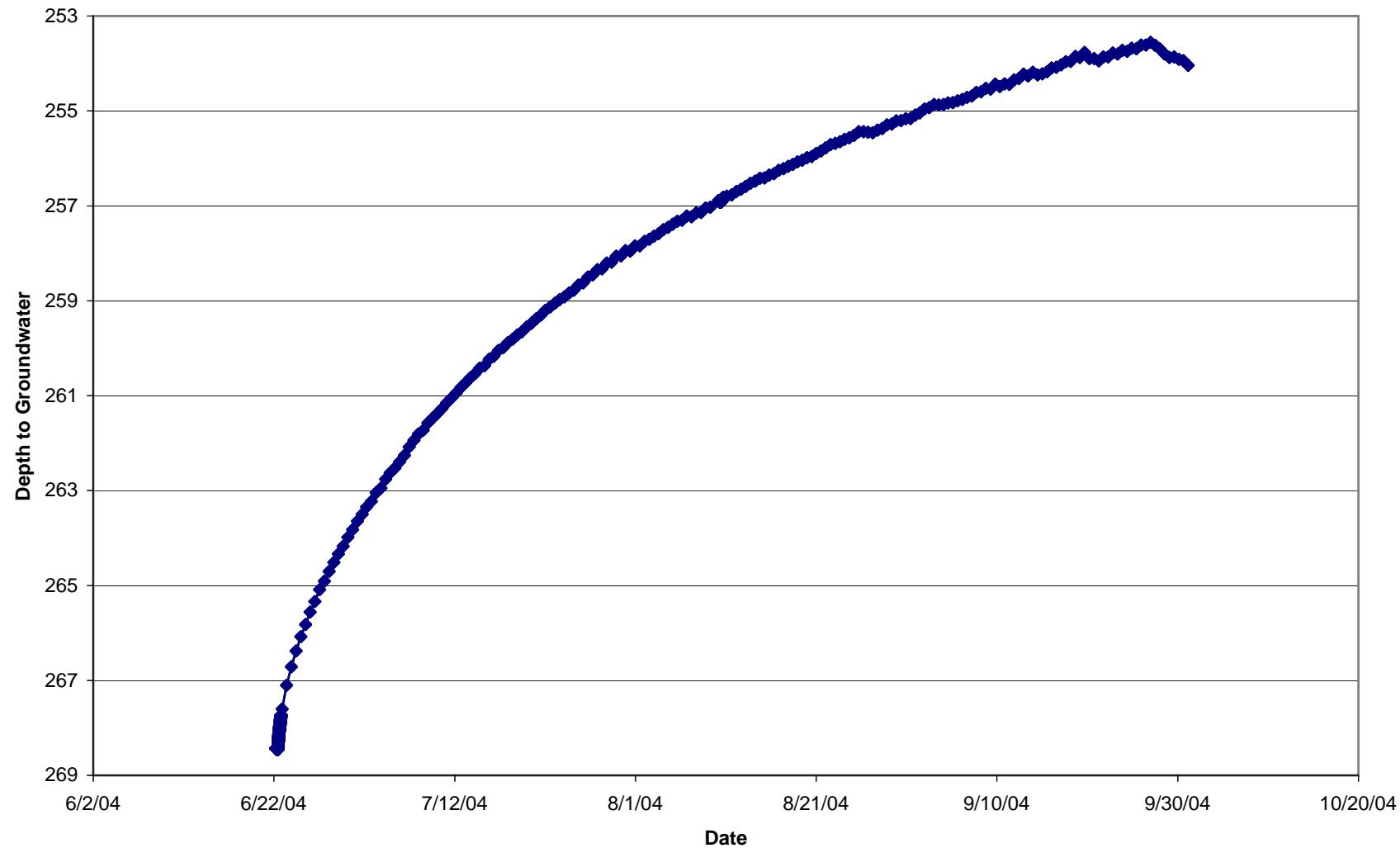
Water Level Recovery E-05



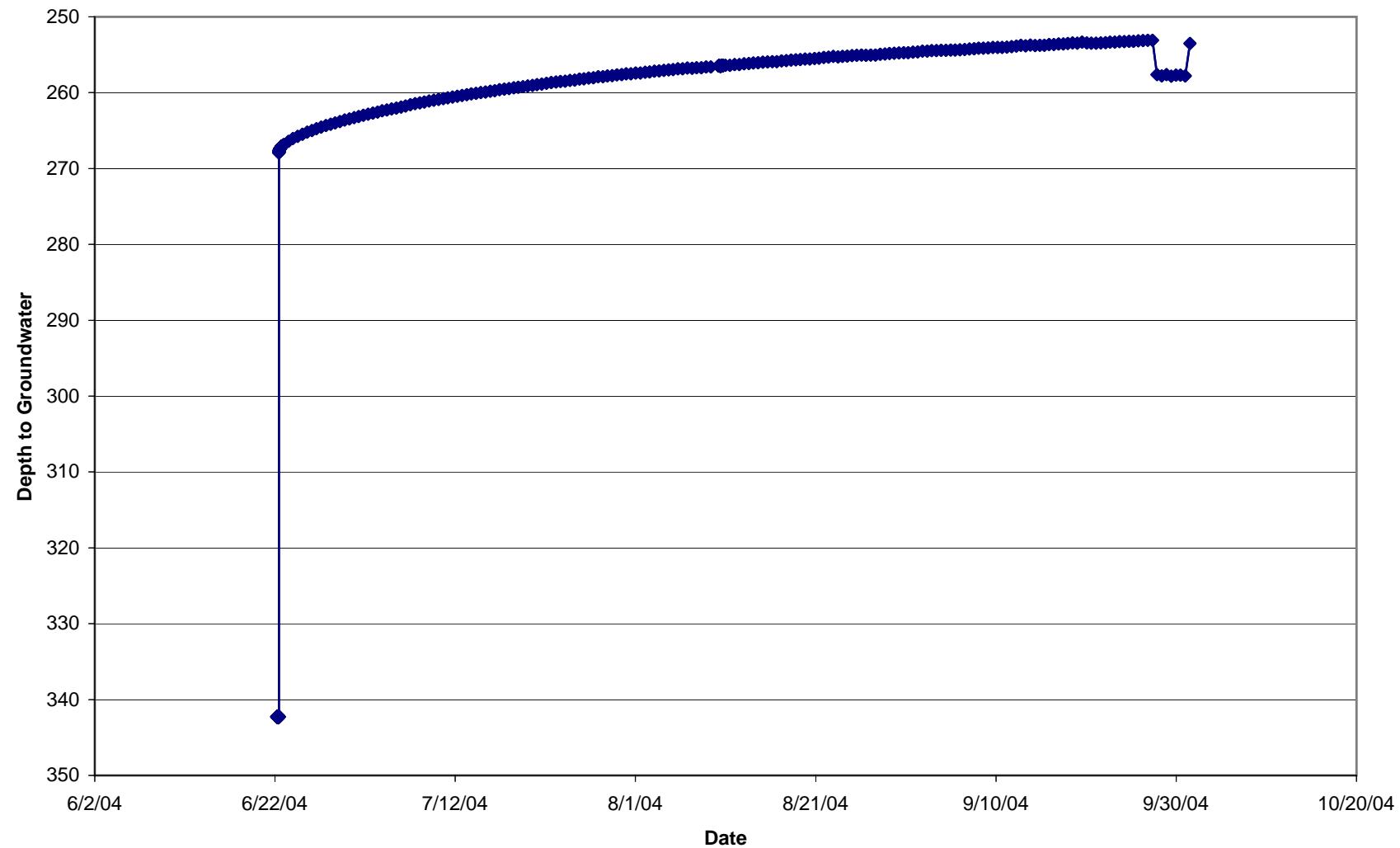
Water Level Recovery E-08



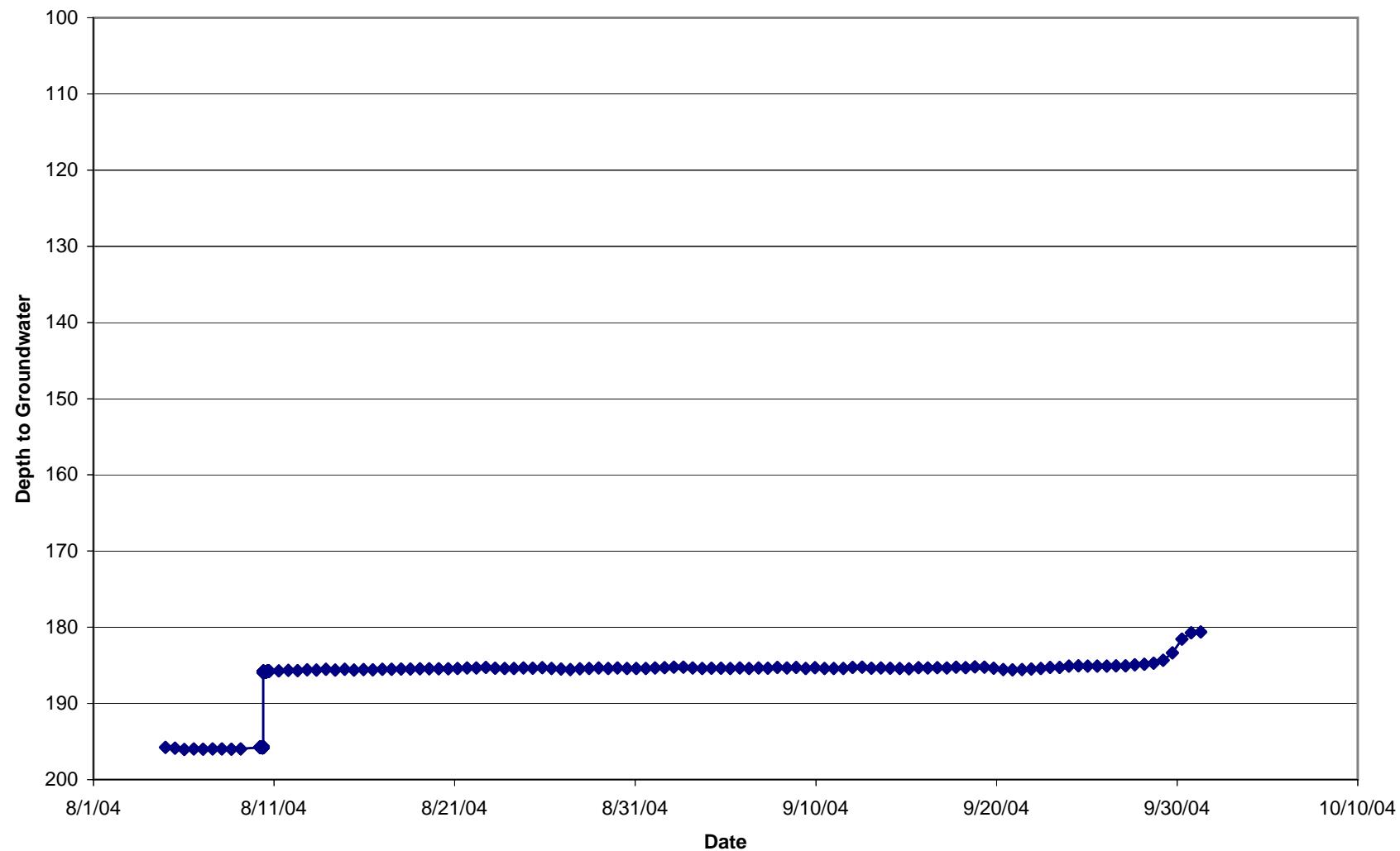
Water Level Recovery E-09



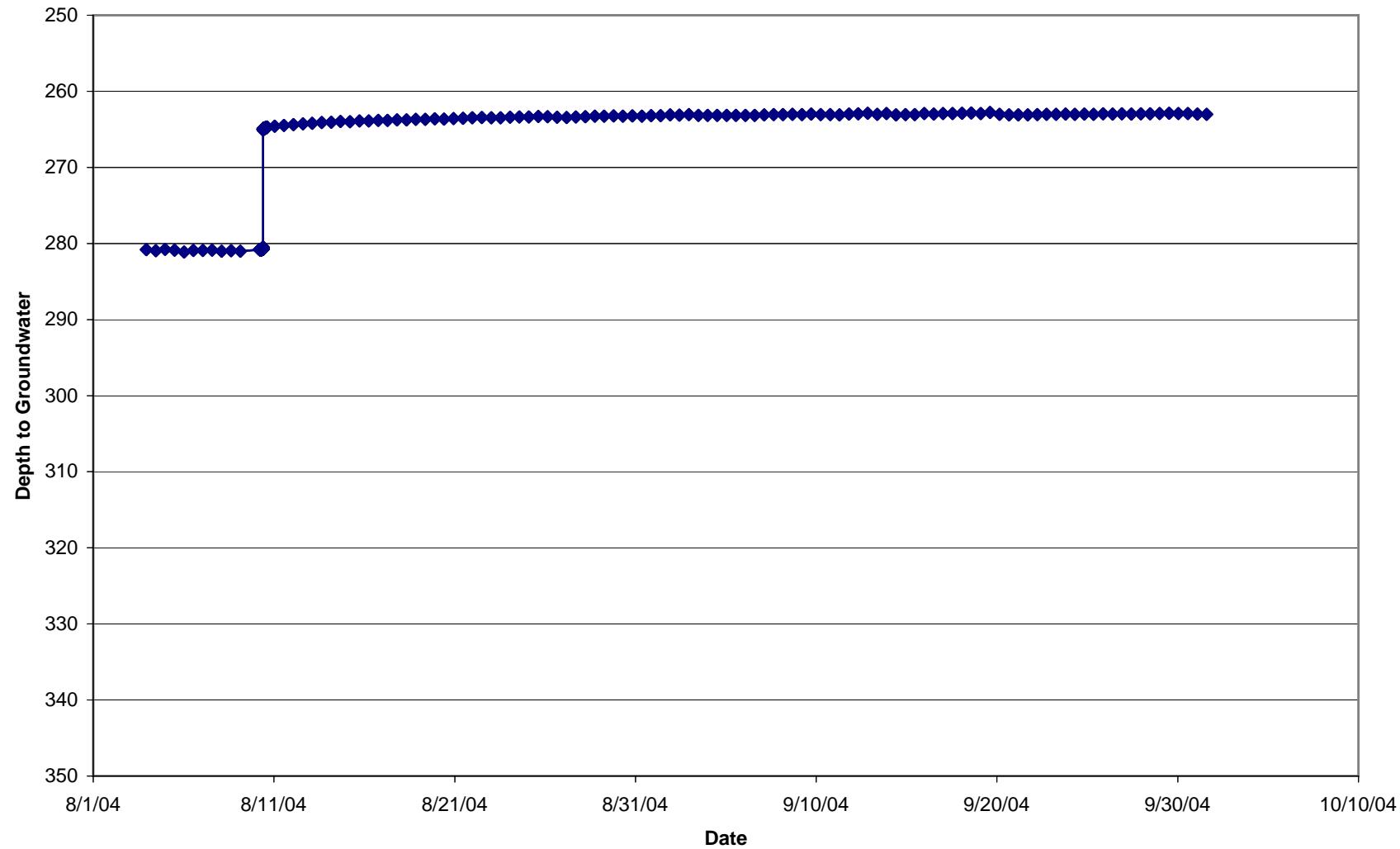
Water Level Recovery E-10



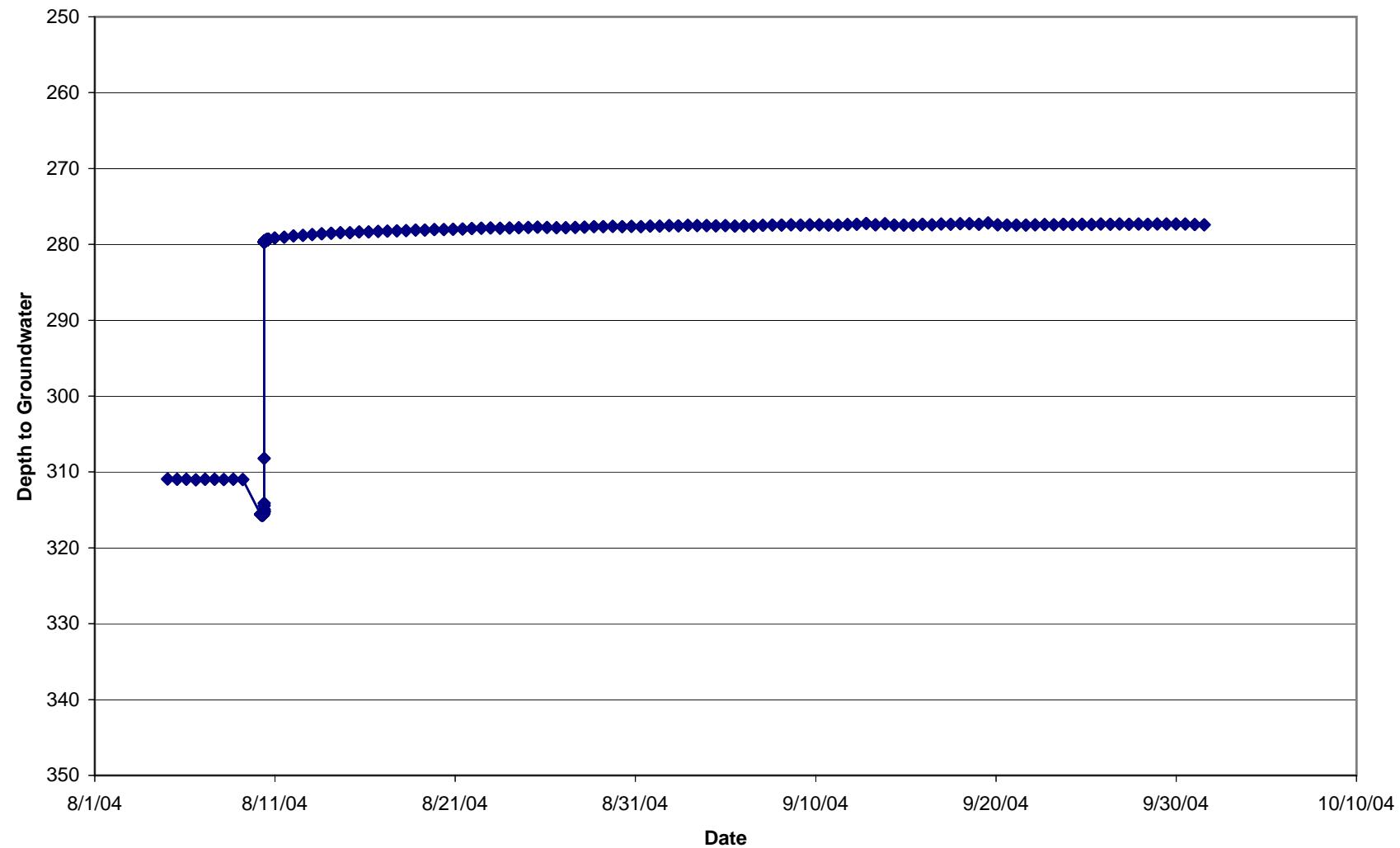
Water Level Recovery E-11



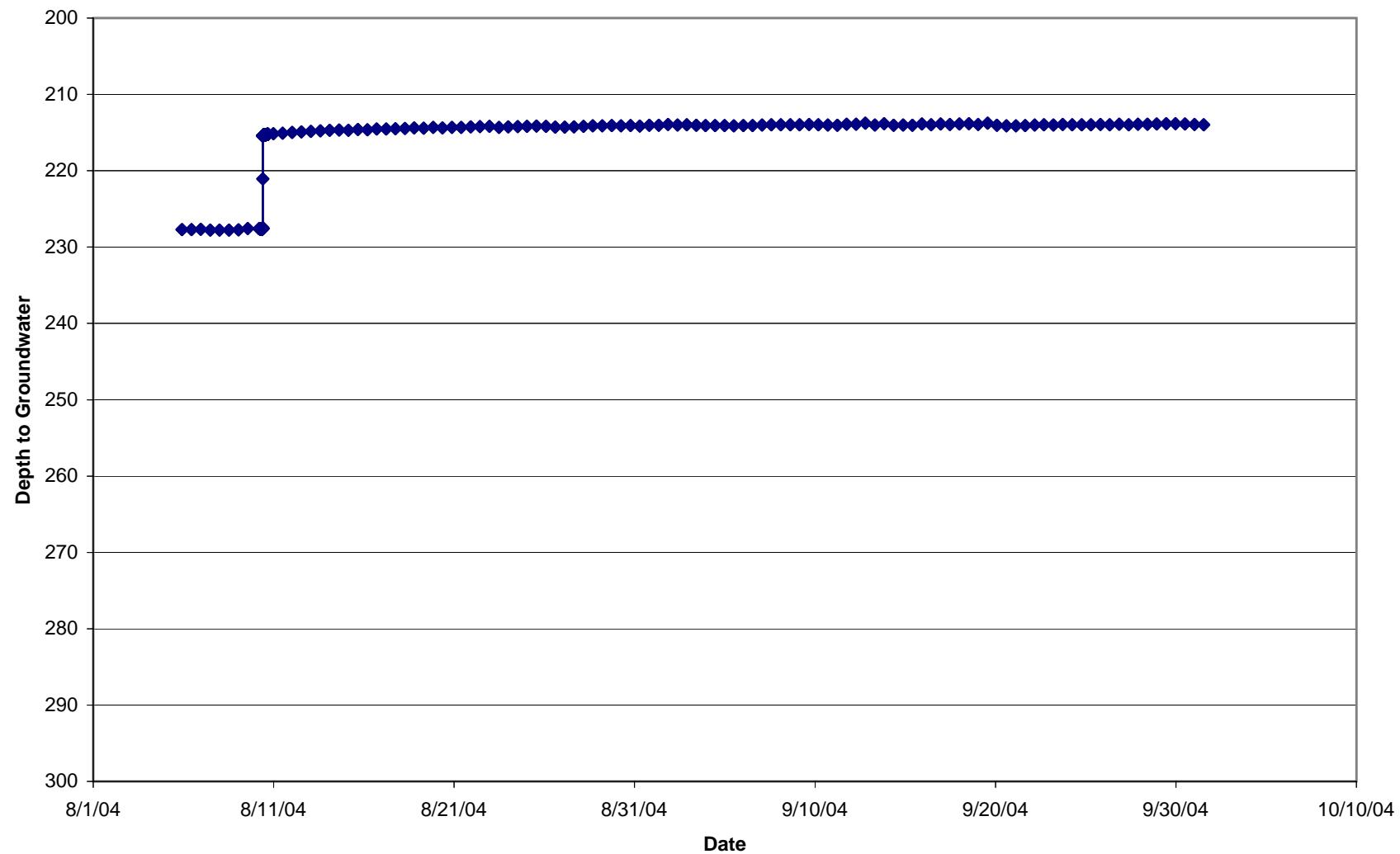
Water Level Recovery E-13



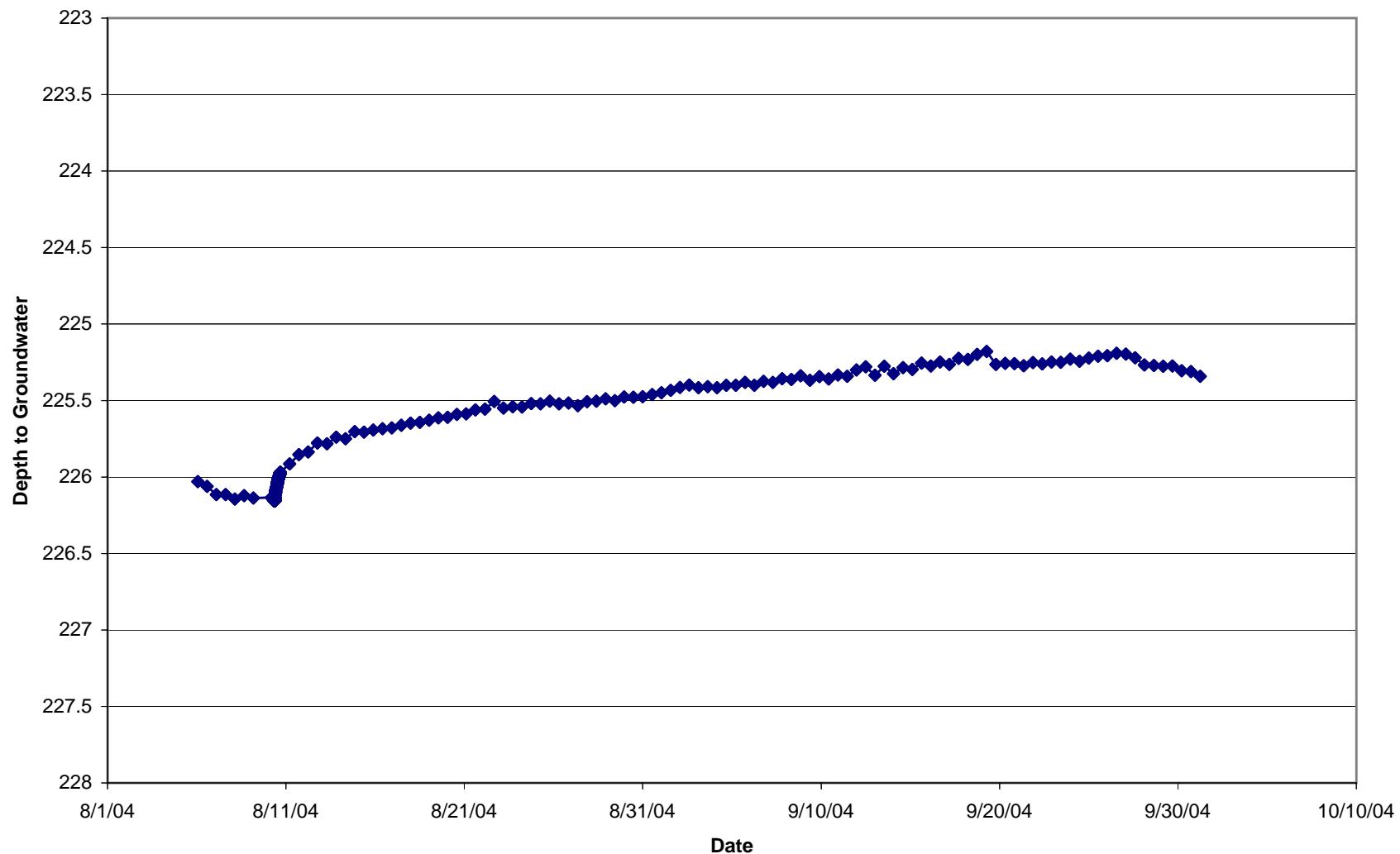
Water Level Recovery E-14



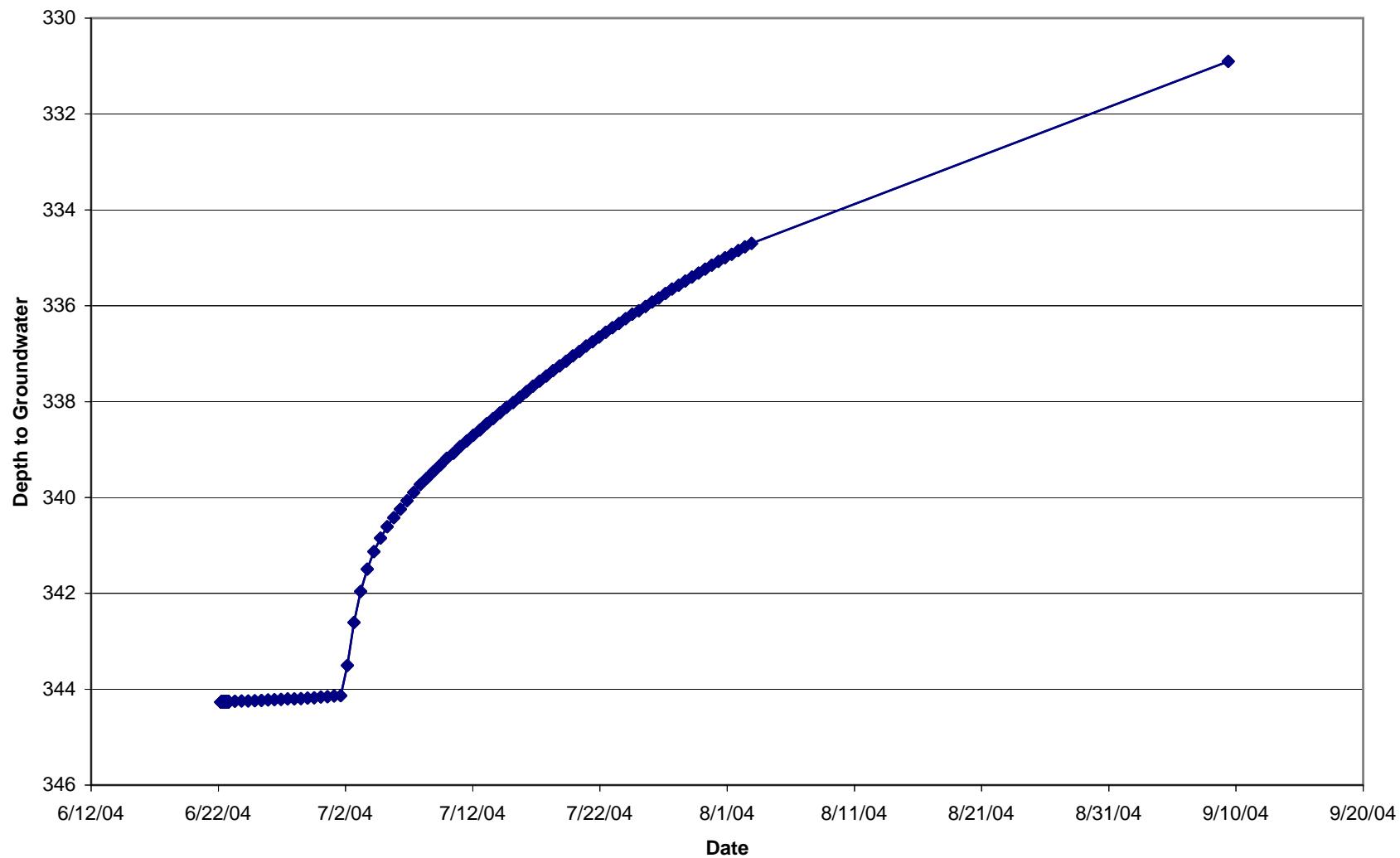
Water Level Recovery E-15



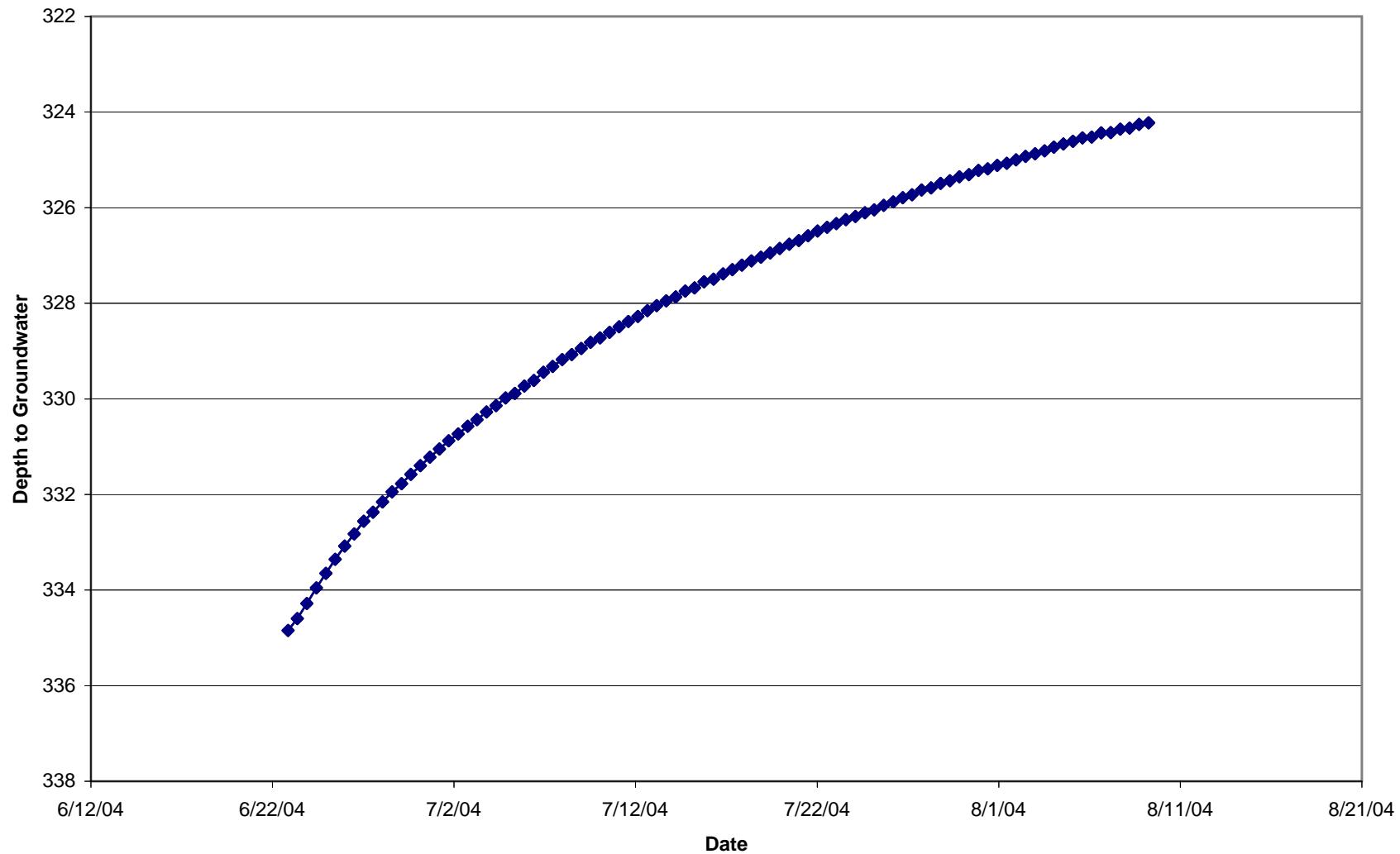
Water Level Recovery P-04D



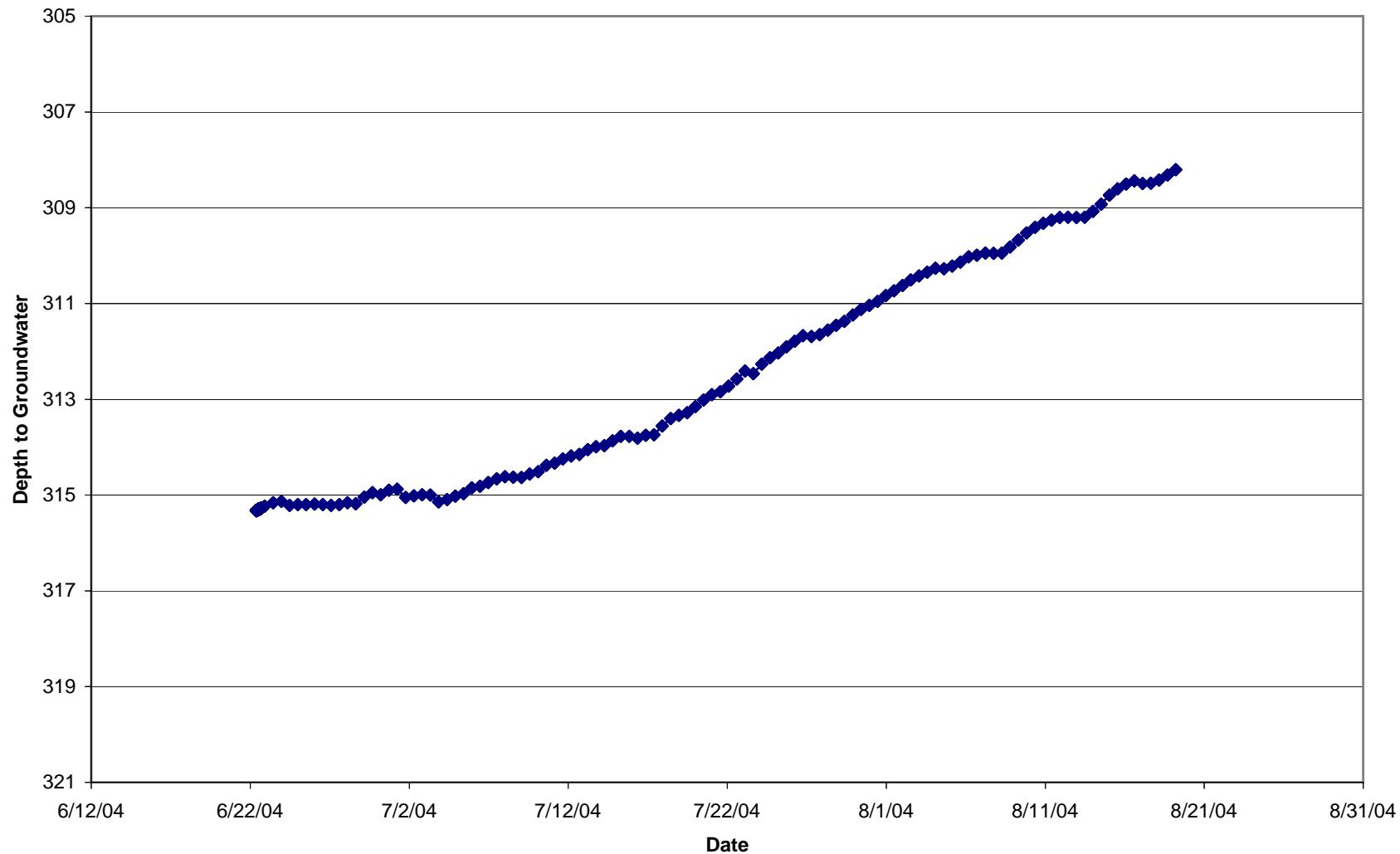
Water Level Recovery P-08D



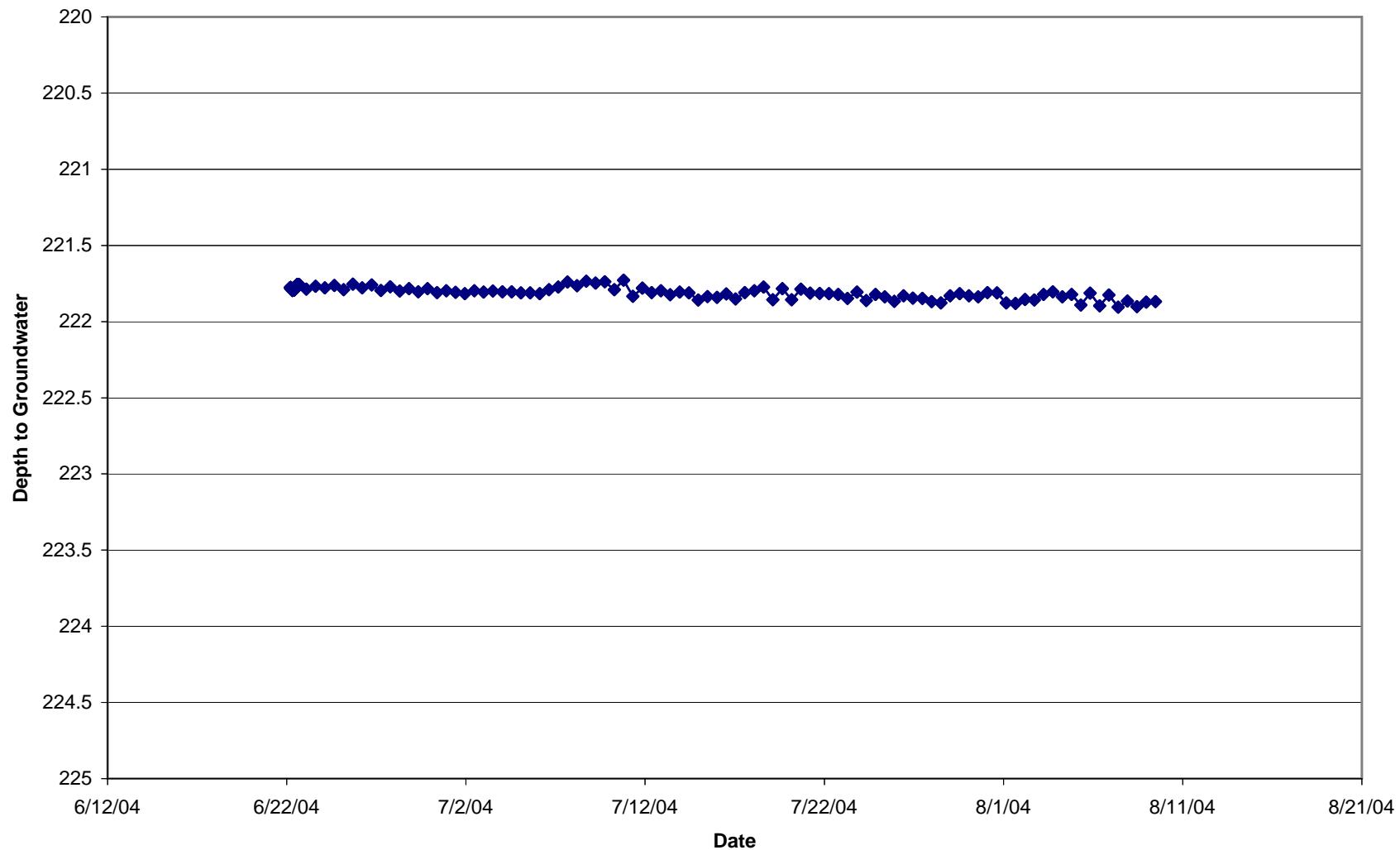
Water Level Recovery P-09D



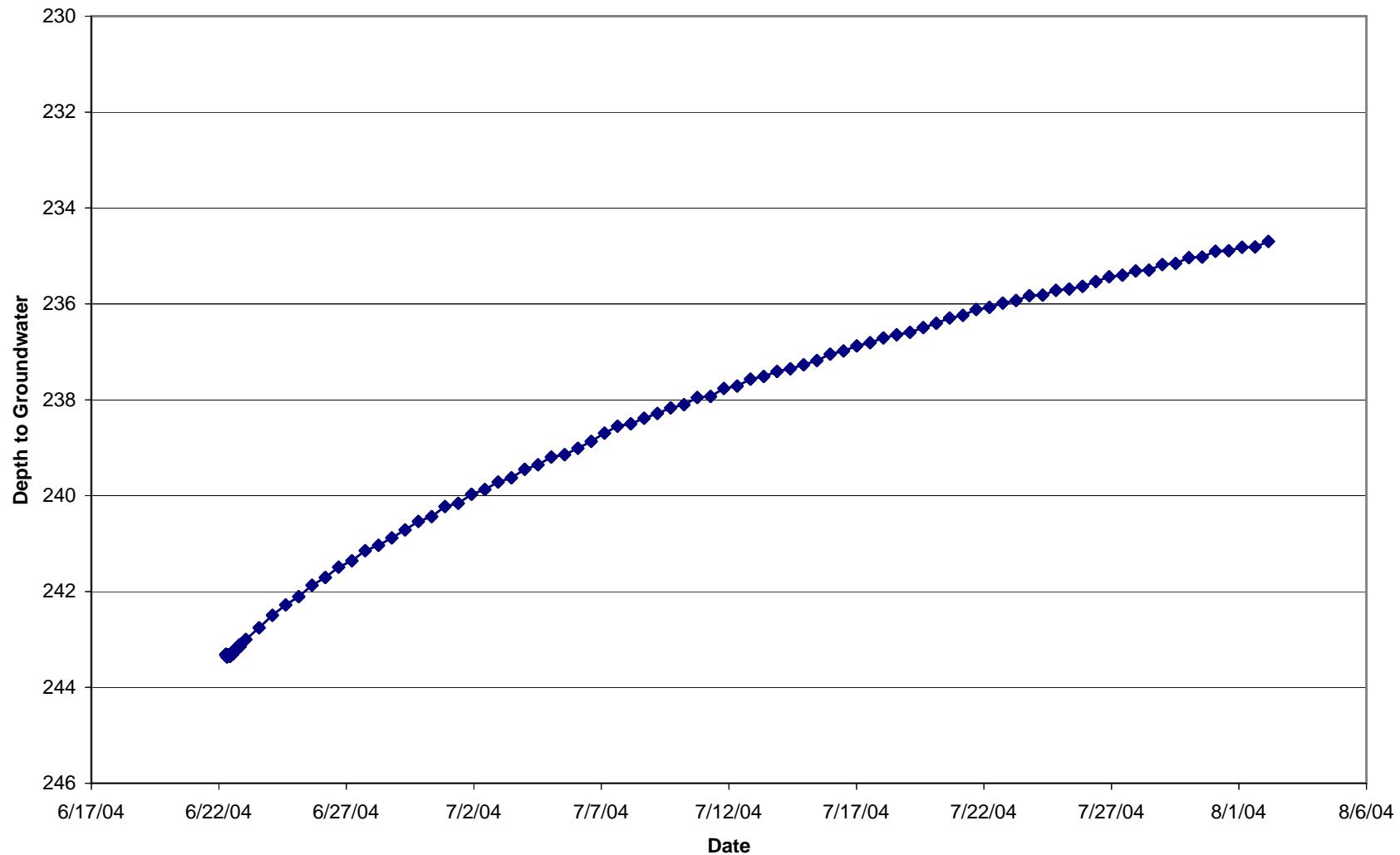
Water Level Recovery P-10D



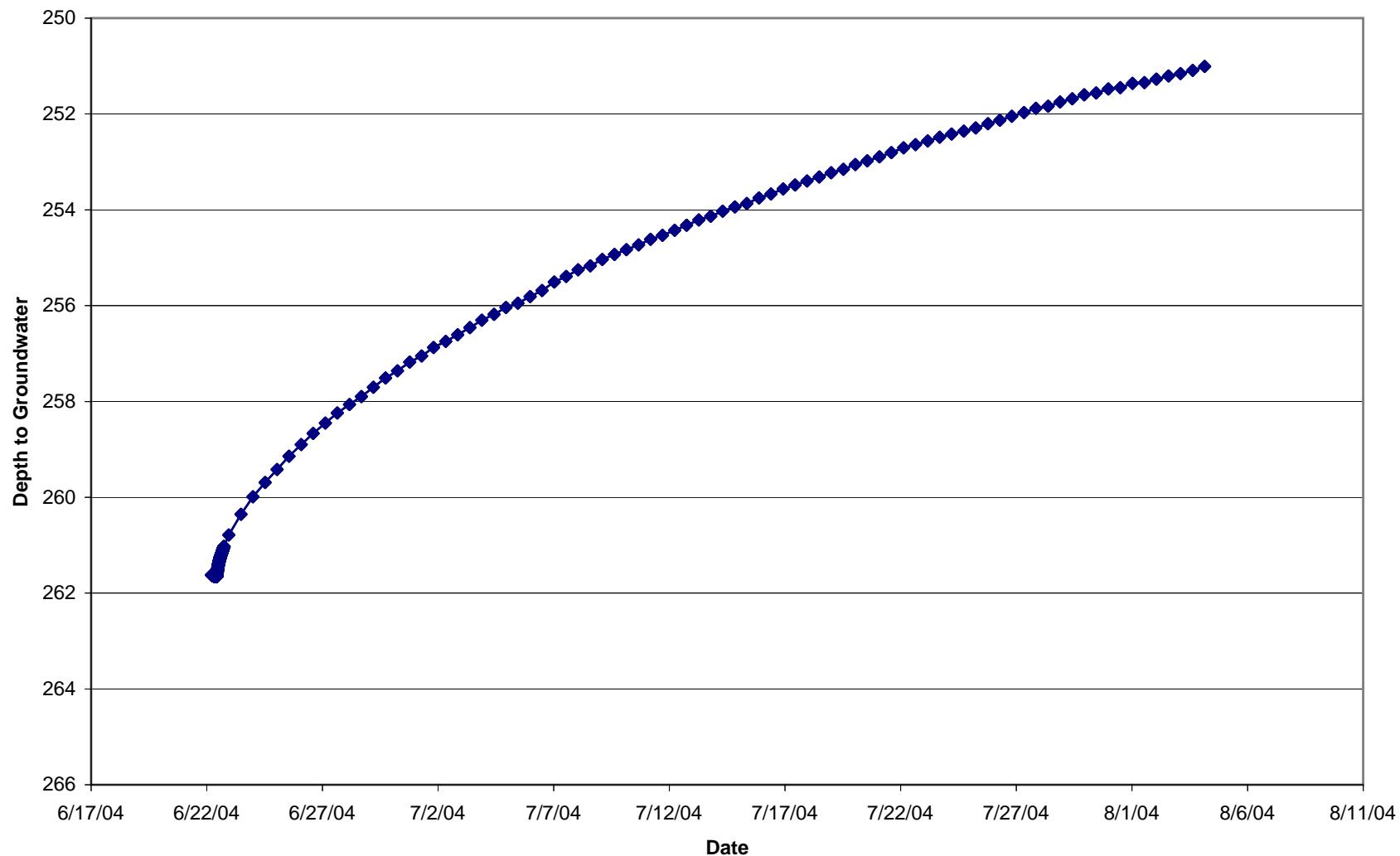
Water Level Recovery P-10S



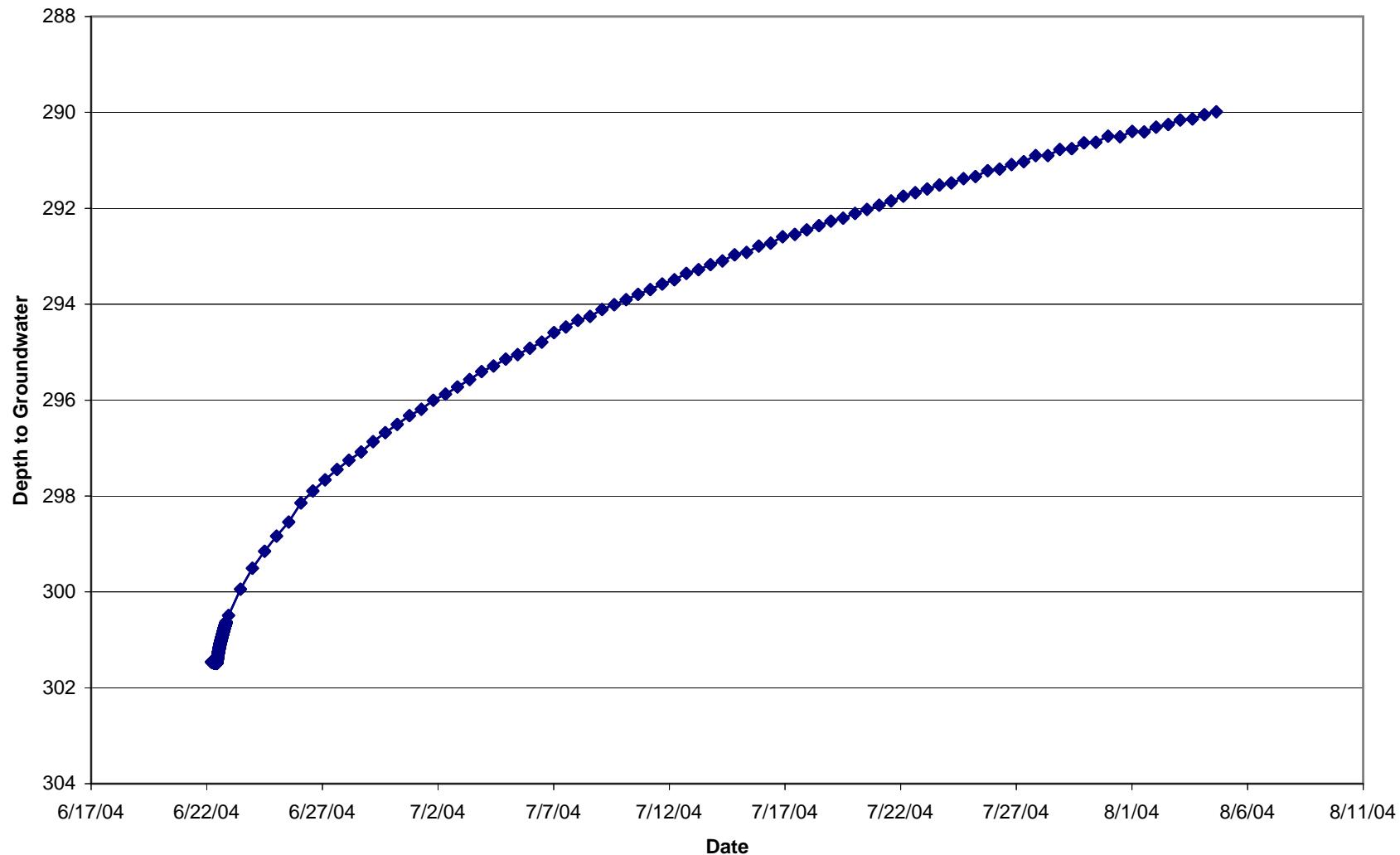
Water Level Recovery P-11D



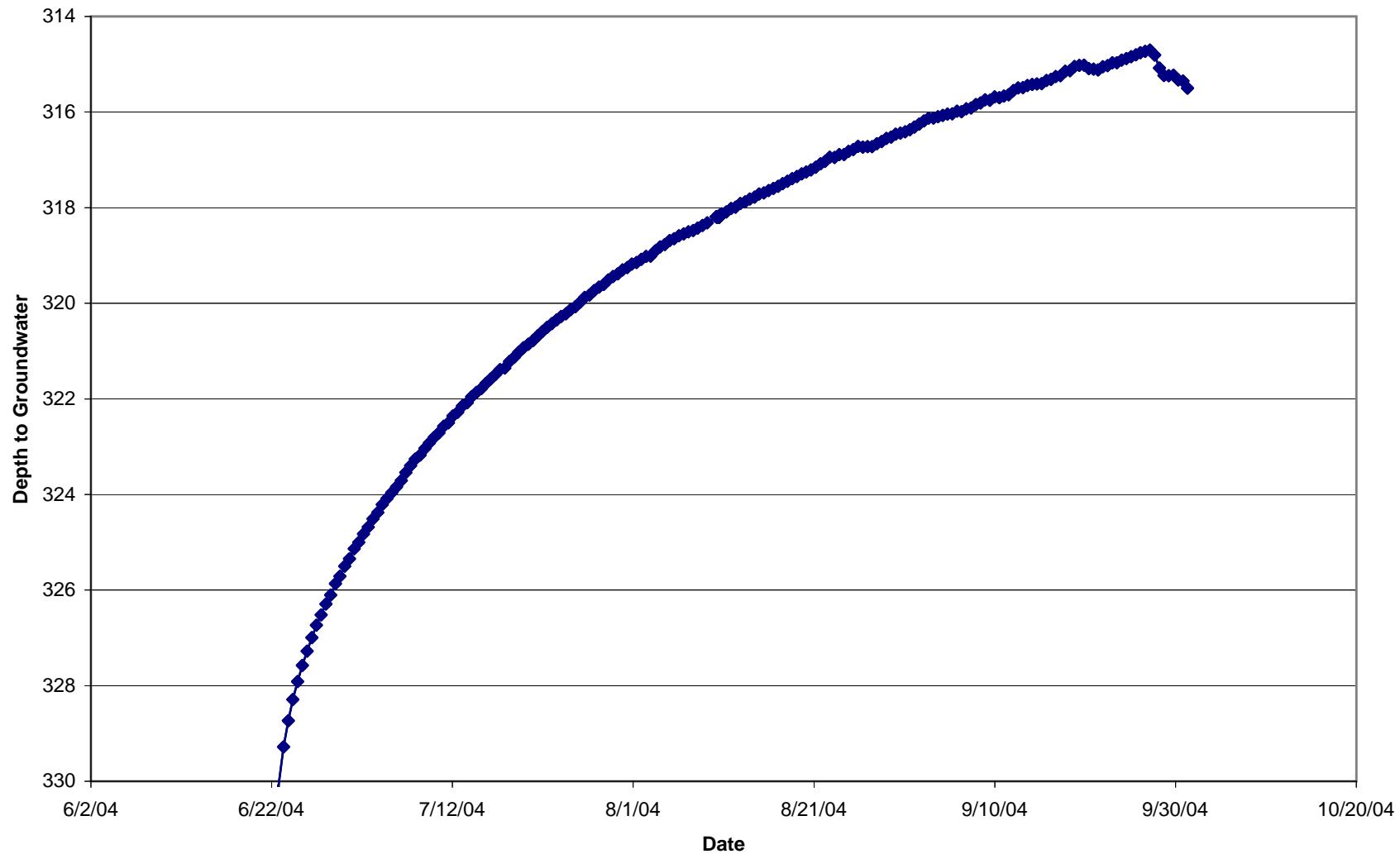
Water Level Recovery P-12D



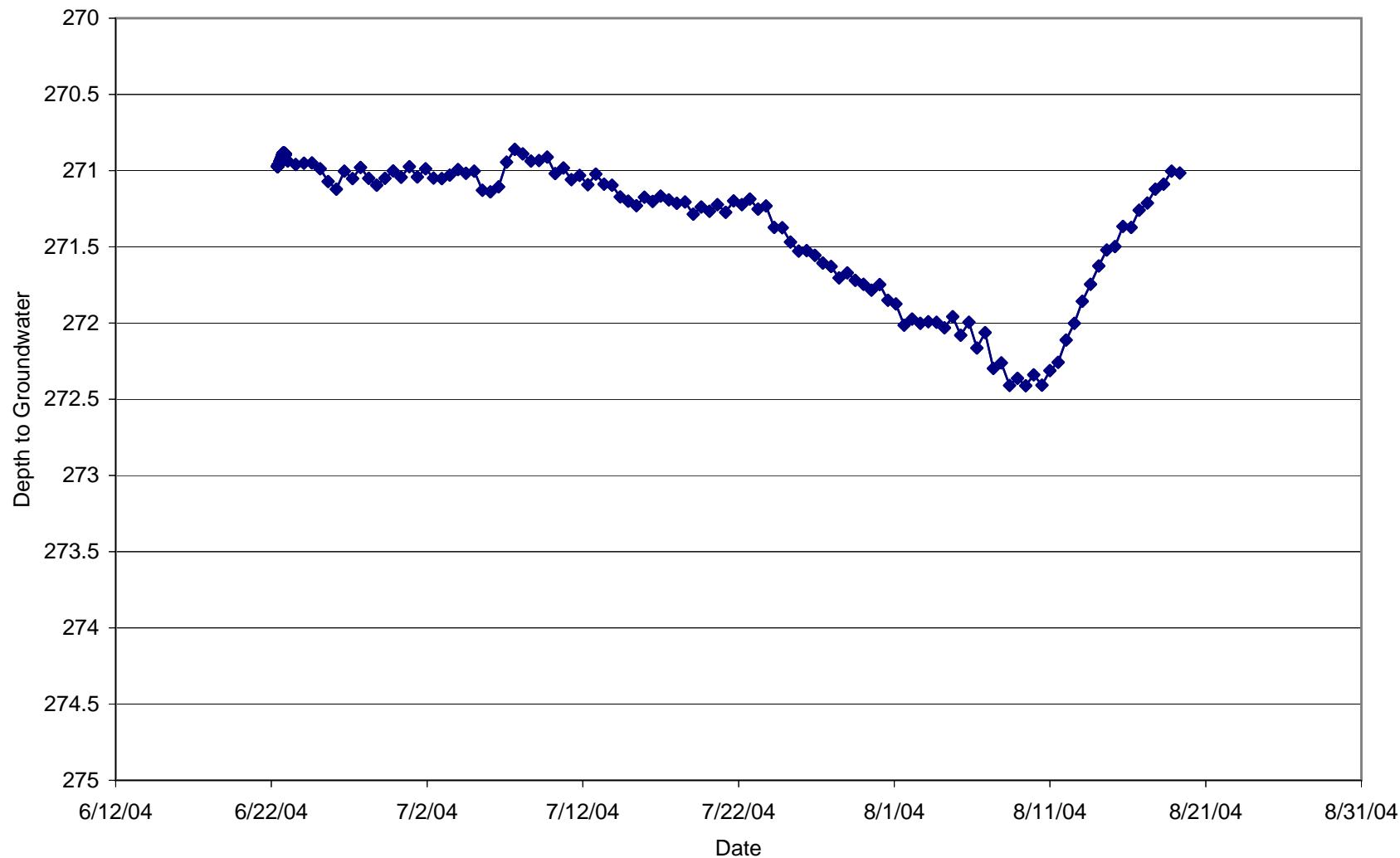
Water Level Recovery P-14D



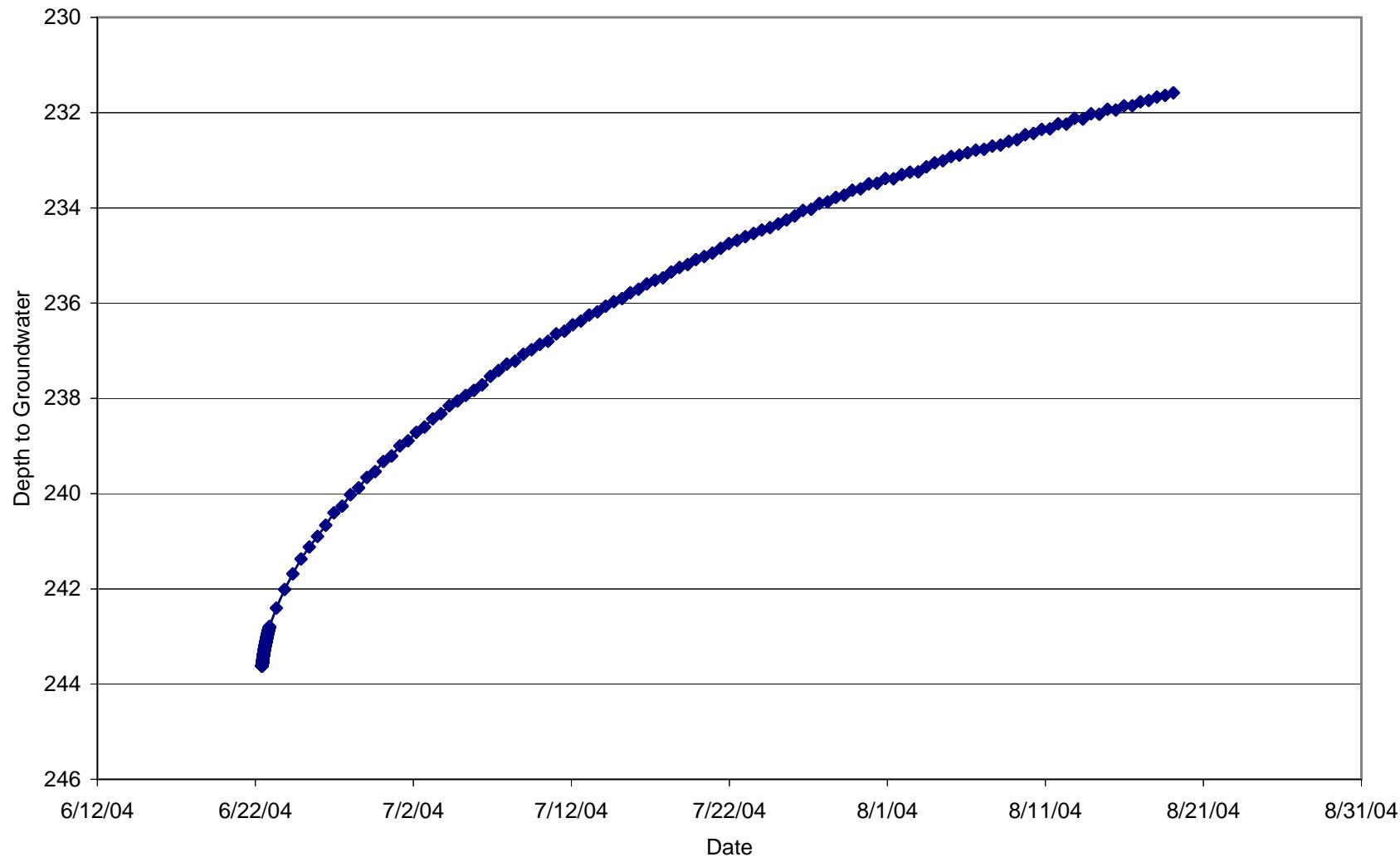
Water Level Recovery P-18D



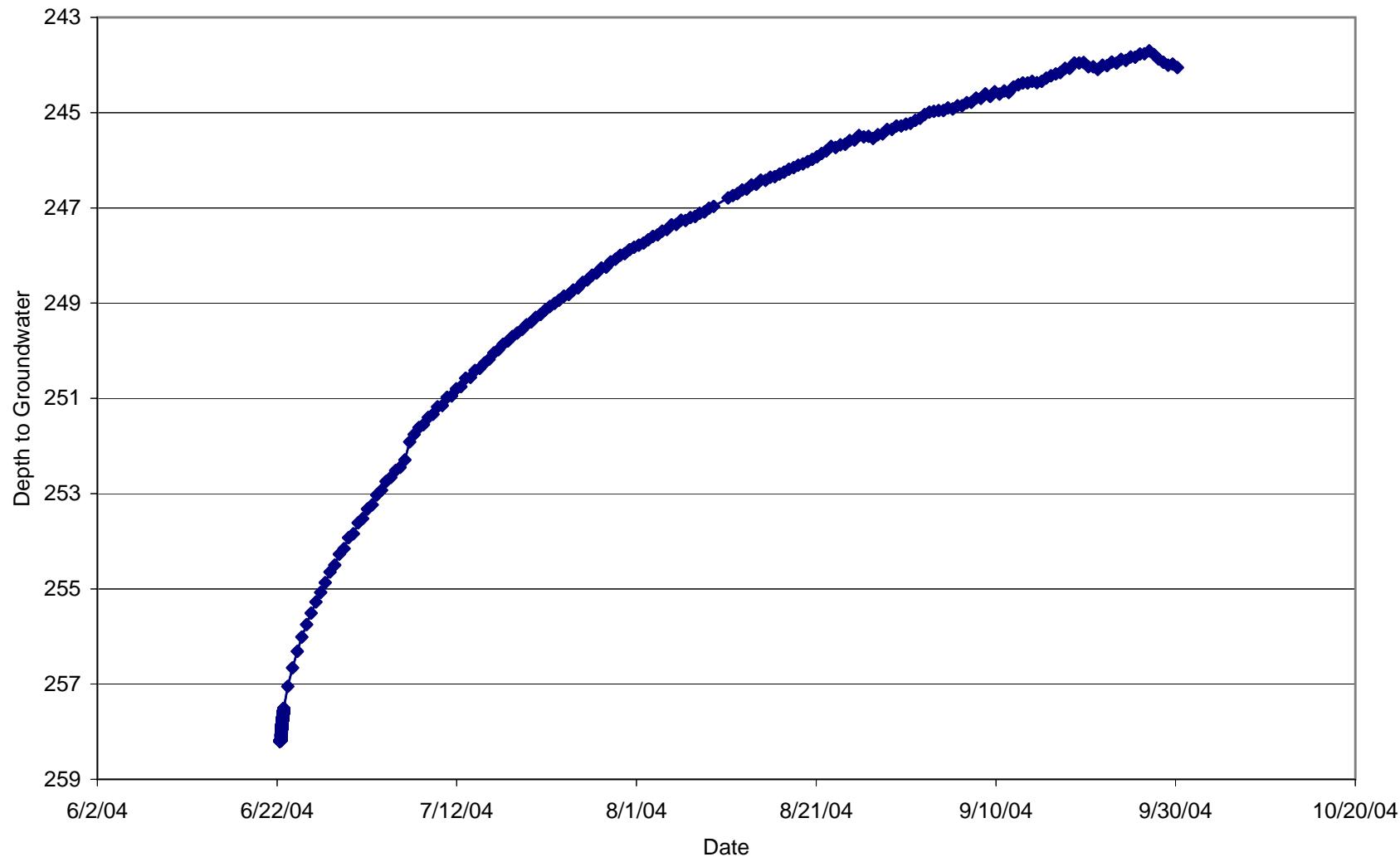
Water Level Recovery P-26S



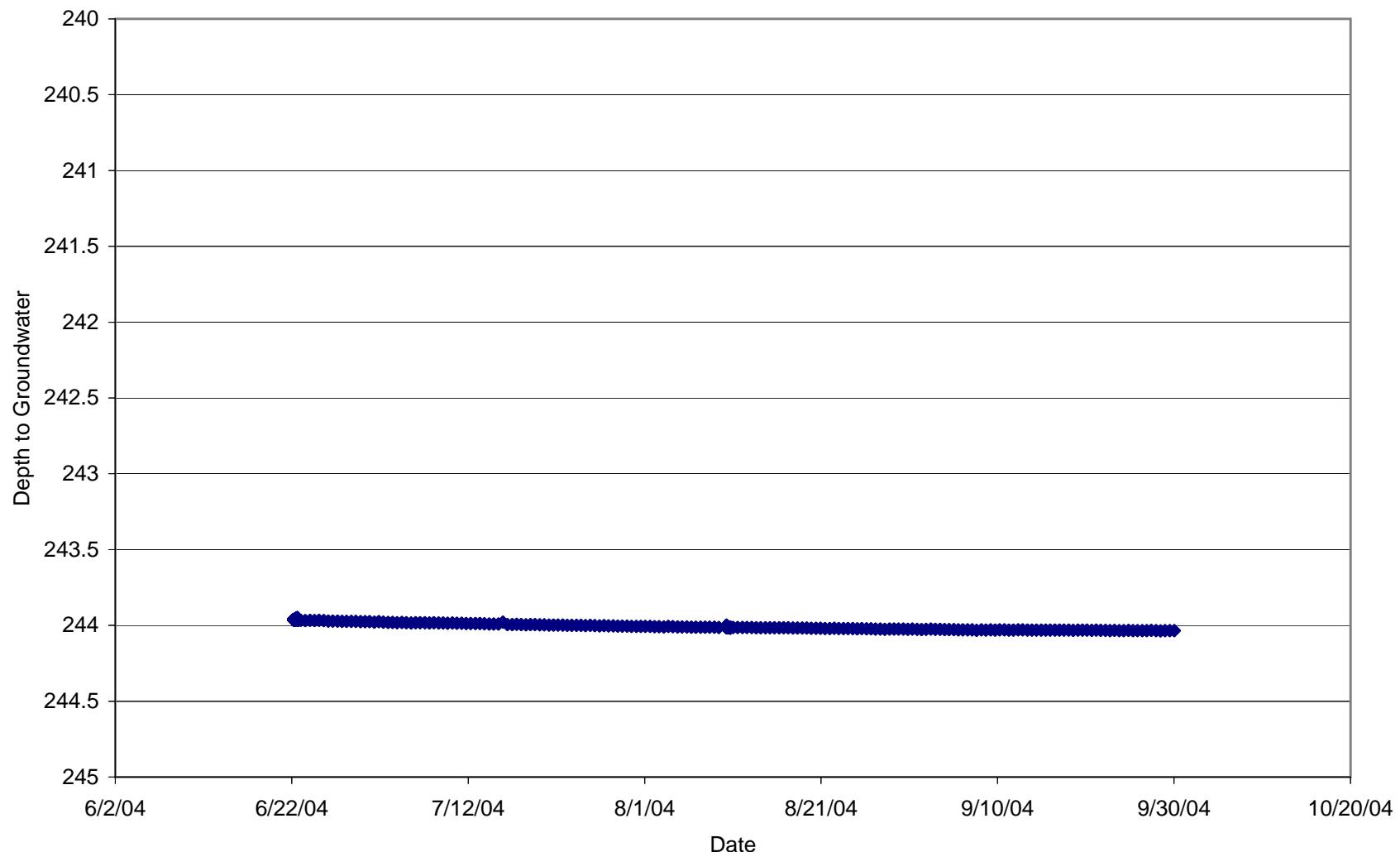
Water Level Recovery P-26D

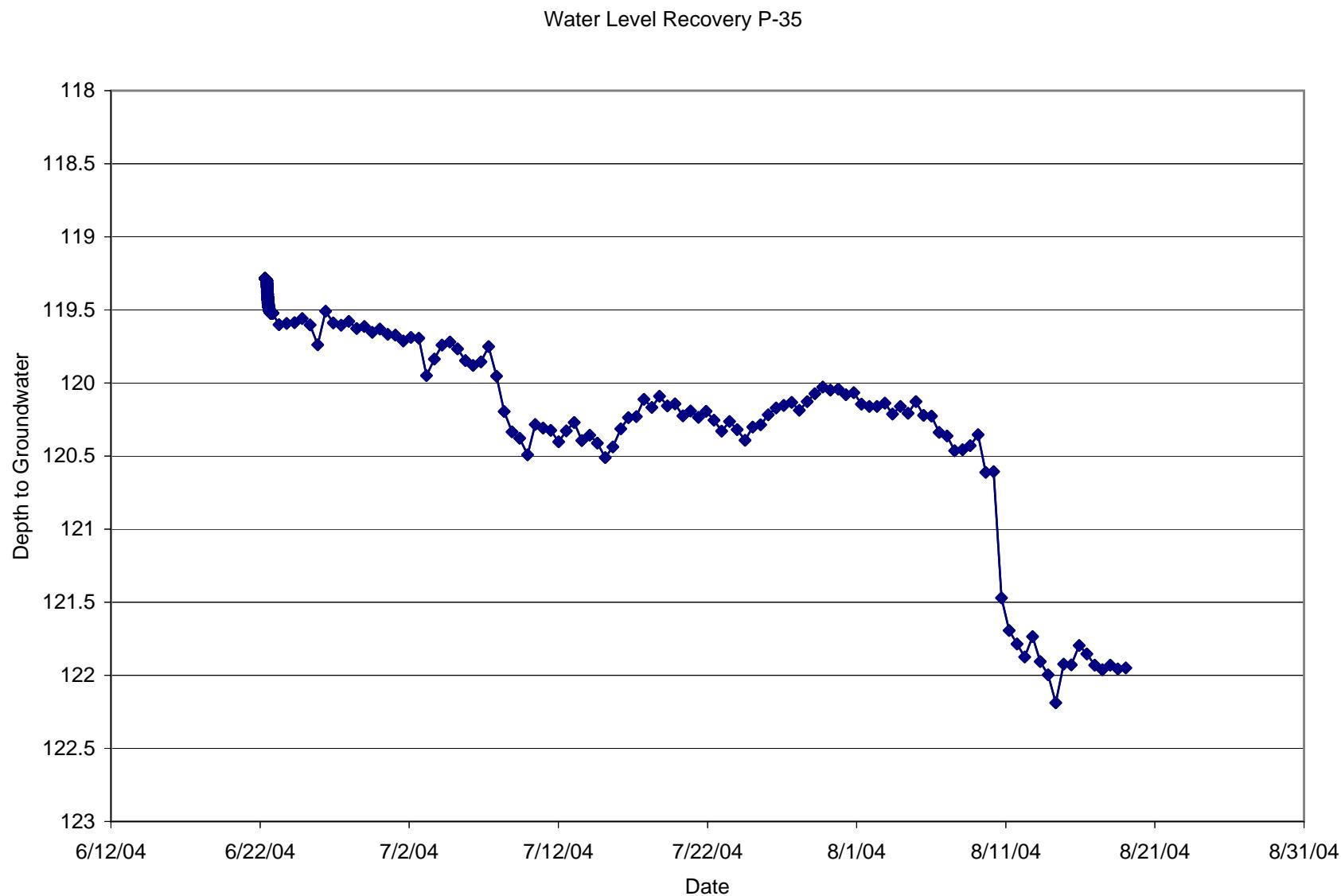


Water Level Recovery P-27D

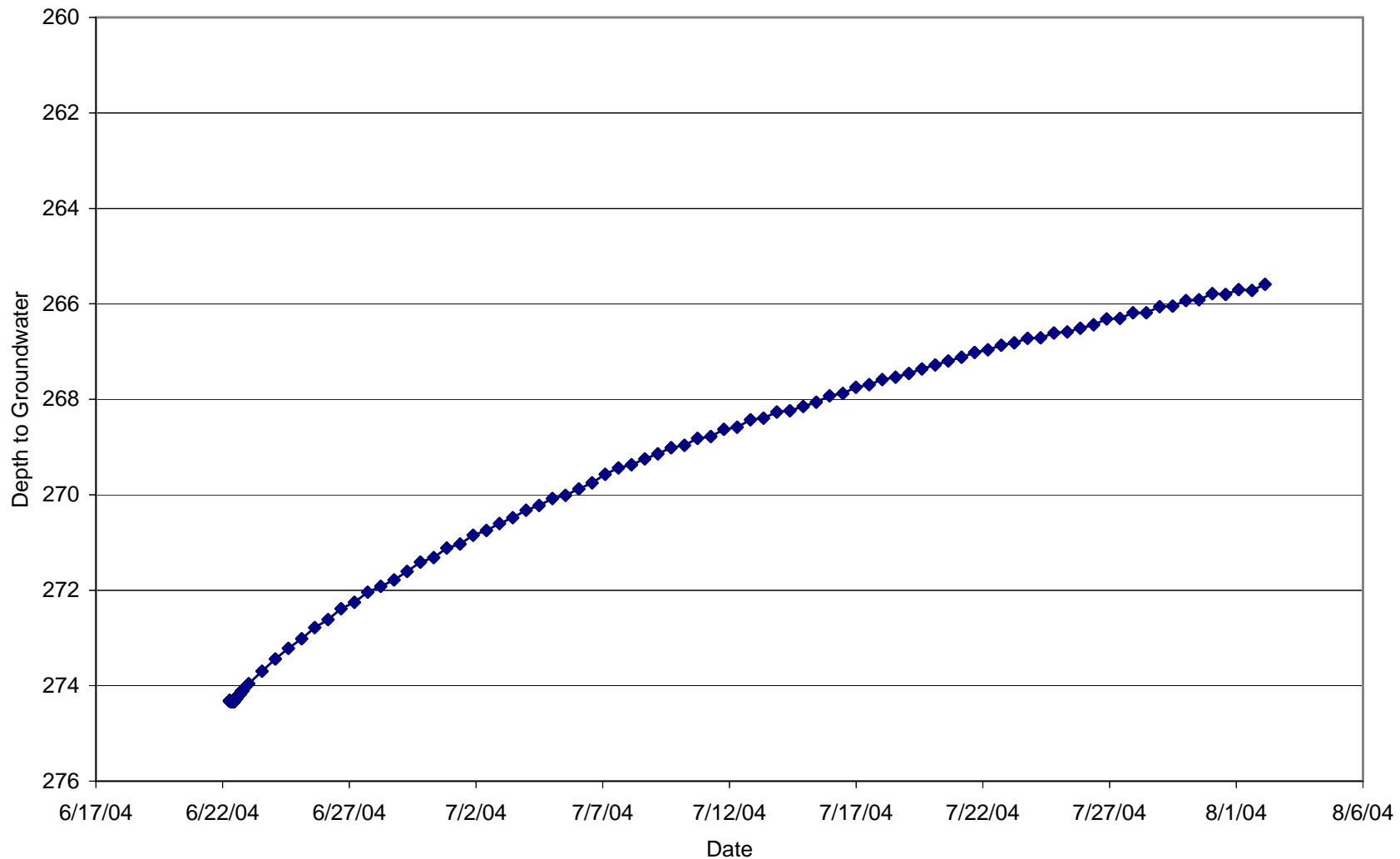


Water Level Recovery P-27S

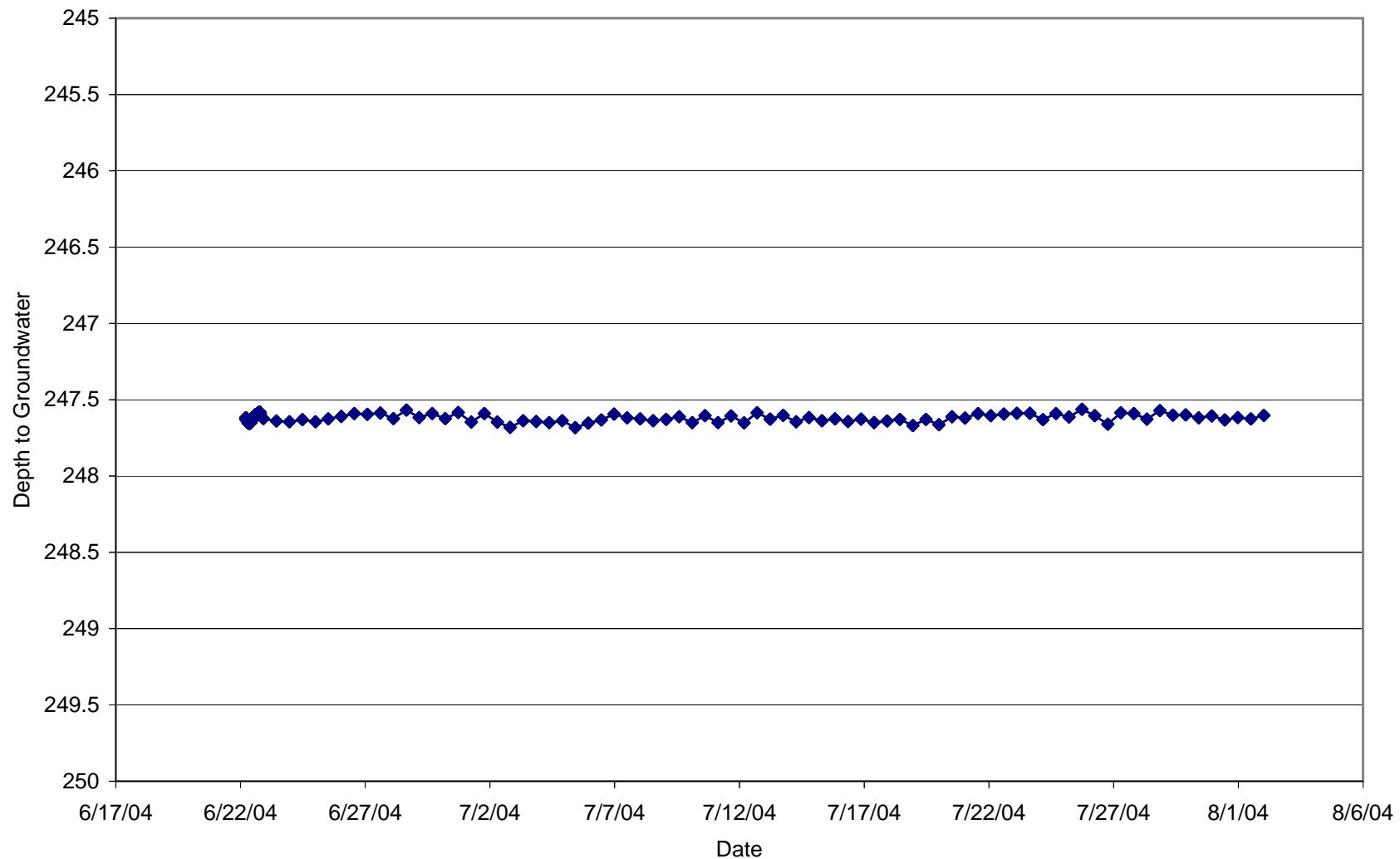




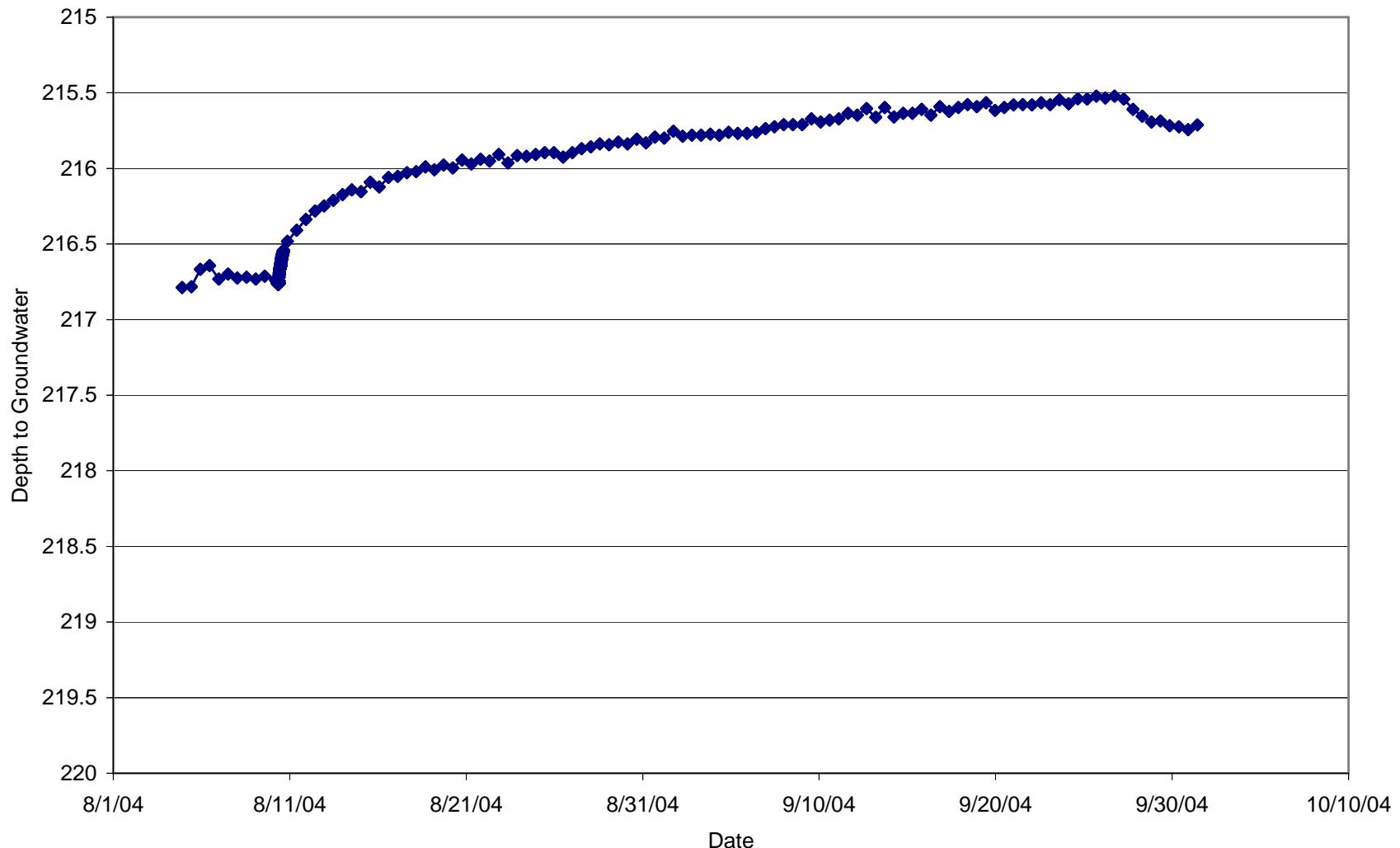
Water Level Recovery P-44

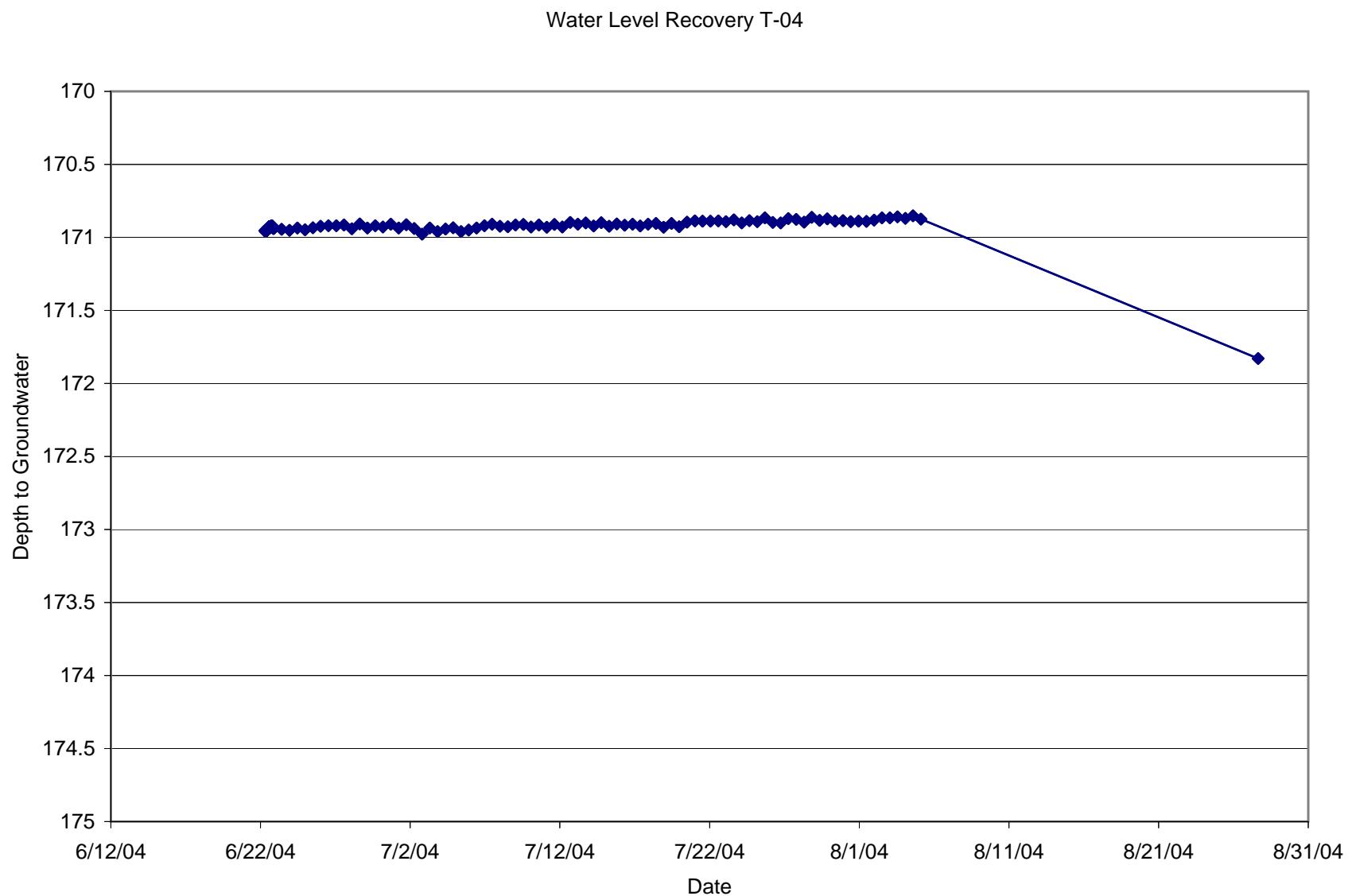


Water Level Recovery T-02

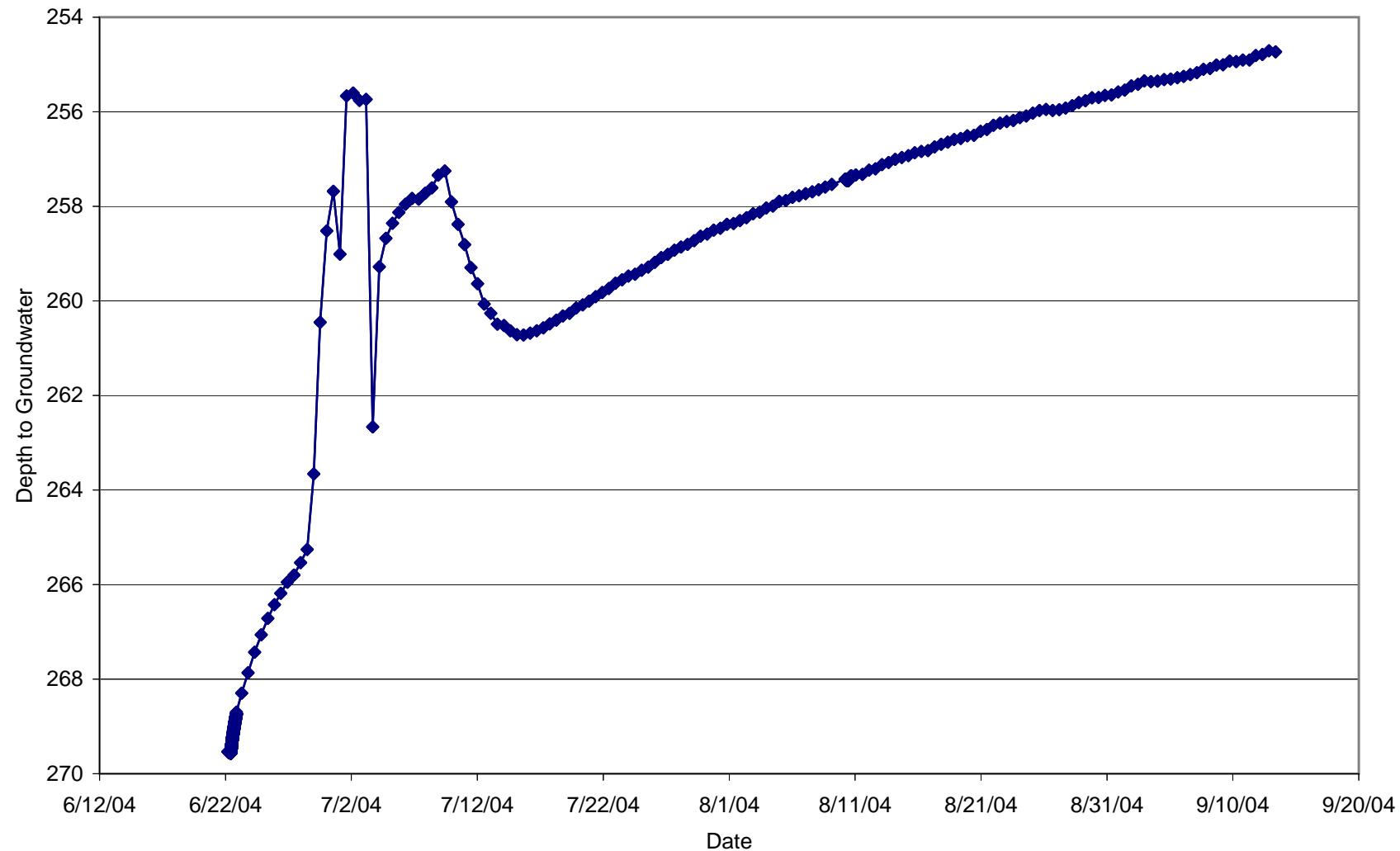


Water Level Recovery T-03





Water Level Recovery T-05



Water Level Recovery T-06

